

PRODUCT MONOGRAPH  
INCLUDING PATIENT MEDICATION INFORMATION

<sup>Pr</sup>**SALOFALK**<sup>®</sup>

Mesalamine Rectal Suspension

Suspension, 2 g/60 g and 4 g/60 g, Rectal

USP

Lower Gastrointestinal Tract Anti-Inflammatory

(ATC A07EC02)

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**RECENT MAJOR LABEL CHANGES**

7 WARNINGS AND PRECAUTIONS, Renal	02/2021
7 WARNINGS AND PRECAUTIONS, Renal	04/2020
7 WARNINGS AND PRECAUTIONS, Skin	11/2021
7 WARNINGS AND PRECAUTIONS, 7.1.2 Breast Feeding	11/2021

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## **PART I: HEALTH PROFESSIONAL INFORMATION**

### **1 INDICATIONS**

SALOFALK® (mesalamine rectal suspension) 4 g/60 g is indicated:

- in the management of distal ulcerative colitis (DUC) extending to the splenic flexure including refractory DUC defined to include patients who are difficult to manage with conventional therapies and patients who are allergic to sulfasalazine (SAS)
- as adjunctive therapy in more extensive disease as well as for the prevention of relapse in distal ulcerative colitis

SALOFALK® 2 g/60 g is indicated:

- for the prevention of relapse in distal ulcerative colitis

#### **1.1 Pediatrics**

Information on the safety and efficacy of SALOFALK 2 g/60 g and 4 g/60 g, in children is limited. Use of the drug should be limited to situations where a clear benefit is expected. SALOFALK should not be used in infants under two years of age.

#### **1.2 Geriatrics**

No data are available to Health Canada; therefore, Health Canada has not authorized an indication for geriatric use.

### **2 CONTRAINDICATIONS**

SALOFALK is contraindicated in:

- patients who are hypersensitive to this drug or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container. For a complete listing, see 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING
- patients with severe renal impairment (GFR<30ml/min/1.73m<sup>2</sup>) and/or severe hepatic impairment. See 7 WARNINGS AND PRECAUTIONS
- cases of existing gastric or duodenal ulcer
- patients with urinary tract obstructions
- infants under two years of age
- patients hypersensitive to salicylates, including acetylsalicylic acid (e.g. Aspirin®), may also be hypersensitive to this medication

### **4 DOSAGE AND ADMINISTRATION**

#### **4.1 Dosing Considerations**

- Information on the safety and efficacy of SALOFALK 2 g/60 g and 4 g/60 g in children is limited. Use of the drug should be limited to situations where a clear benefit is expected.

## 4.2 Recommended Dose and Dosage Adjustment

### Acute episodes:

- SALOFALK 4 g/60 g is self-administered on a daily basis during acute episodes of disease. Usually one bottle of rectal suspension (4 g 5-aminosalicylic acid [5-ASA]) is taken upon retiring and retained during the entire rest period. Best results are expected with prolonged retention.
- The usual course of therapy for an adult is one bottle of 4 g/60 g daily at bedtime. Response to treatment and adjustment in dosing frequency should be determined by periodic examination, including endoscopy and the assessment of symptomatology including rectal bleeding, stool frequency, and general well-being.
- Daily dosing is continued until a significant response is achieved or the patient achieves remission.

### Prevention of relapses:

- SALOFALK 2 g/60 g is self-administered in the same manner on a daily basis to prevent relapse.
- If, alternatively, the 4 g/60 g preparation is used to prevent relapse, the dose can usually be reduced to alternate days or every third day, depending upon disease activity. Abrupt discontinuation of 5-ASA is not recommended. Dose tapering is recommended and each patient should be titrated to meet individual needs. Maintenance therapy is recommended to assure continued remission. However, should symptoms of diarrhoea and rectal bleeding recur, dosage should be increased to 4 g/60 g/day.

Health Canada has not authorized an indication for infants less than 2 years of age. See [1.1 Pediatrics](#).

## 4.3 Reconstitution

Not Applicable.

## 4.4 Administration

SALOFALK 4 g/60 g is self-administered on a daily basis during acute episodes of disease.

SALOFALK 2 g/60 g is self-administered in the same manner on a daily basis to prevent relapse.

## 4.5 Missed Dose

If a dose of SALOFALK is missed, it should be used as soon as possible, unless it is almost time for the next dose. A patient should not use two SALOFALK doses at the same time to make up for a missed dose.

## 5 OVERDOSAGE

There has been no clinical experience with mesalamine overdosage. However, because mesalamine is an aminosalicilate, the symptoms of overdose may mimic the symptoms of salicylate overdose; therefore, measures used to treat salicylate overdose may be applied to mesalamine overdose. Under ordinary circumstances, local mesalamine absorption from the colon is limited. There is no specific antidote and treatment is symptomatic and supportive.

For management of a suspected drug overdose, contact your regional poison control centre.

## 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table – Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Rectal	Suspension 2 g/60 g and 4 g/60 g	carbomer, edetate disodium, potassium acetate, potassium metabisulfite, purified water, sodium benzoate and xanthan gum.

SALOFALK is gluten- free and phthalate-free.

Each bottle consists of a rectal dosing package designed for self-administration and disposal. A removable protective sheath covers the pre-lubricated suspension nozzle until ready for use. A one-way valve allows the suspension to flow from the bottle through the applicator nozzle and into the rectal vault as the patient squeezes the thin-walled collapsible bottle.

Each carton contains 7 bottles.

## 7 WARNINGS AND PRECAUTIONS

### General

Salofalk should be used only if the benefits clearly outweigh the risks in patients with underlying, bleeding or clotting disorders as well as during pregnancy and lactation.

Patients with renal dysfunction, or elevated Blood Urea Nitrogen (BUN), or elevated serum creatinine, or with proteinuria, should be carefully monitored while receiving Salofalk.

Concomitant treatment with mesalamine can increase the risk of myelosuppression in patients receiving azathioprine or 6-mercaptopurine.

### Acute Intolerance Syndrome

Mesalamine has been implicated in the production of an acute intolerance syndrome characterized by cramping, acute abdominal pain and bloody diarrhoea, sometimes fever, headache and a rash; in such cases prompt withdrawal is required. The patient's history of sulfasalazine intolerance, if any, should be re-evaluated. If a rechallenge is performed later in order to validate the hypersensitivity, it should be carried out under close supervision and only if clearly needed, giving consideration to reduced dosage. The possibility of increased absorption of mesalamine and concomitant renal tubular damage as noted in the preclinical studies must be kept in mind. Patients on concurrent mesalamine products which contain or release mesalamine and those with pre-existing renal disease, should be carefully monitored with urinalysis, and BUN and creatinine testing.

### Carcinogenesis and Mutagenesis

Carcinogenicity studies in animals and mutagenicity tests were negative. See 16 NON-CLINICAL-TOXICOLOGY.

### Cardiovascular

Cardiac side effects, including pericarditis and myocarditis have been uncommonly reported with the use of mesalamine.

Cases of pericarditis have also been reported as manifestations of inflammatory bowel disease. Discontinuation of mesalamine may be warranted in some cases, but rechallenge with mesalamine can be performed under careful clinical observation should the continued therapeutic need for mesalamine be present.

### **Driving and Operating Machinery**

There are no data available on the effects of mesalamine on ability to drive and use machines.

### **Gastrointestinal**

Epigastric pain, also commonly associated with inflammatory bowel disease and prednisone or SAS therapy (18%), should be investigated in order to exclude pericarditis and pancreatitis either as adverse drug reactions to mesalamine or secondary manifestations of inflammatory bowel disease.

### **Hepatic/Biliary/Pancreatic**

There have been reports of hepatic failure and increased liver enzymes in patients with pre-existing liver disease when treated with 5-ASA/Mesalazine products. Therefore, SALOFALK is contraindicated in patients with severe hepatic impairment. See 2 CONTRAINDICATIONS. In patients with mild to moderate liver function impairment, caution should be exercised and SALOFALK should only be used if the expected benefit clearly outweighs the risks to the patients.

### **Renal**

Reports of renal impairment, including minimal change nephropathy, and acute or chronic interstitial nephritis have been associated with mesalamine products and pro-drugs of mesalamine. SALOFALK is contraindicated in patients with severe renal impairment. See 2 CONTRAINDICATIONS. In patients with mild to moderate renal dysfunction, history of renal disease or taking concomitant nephrotoxic drugs caution should be exercised and SALOFALK should be used only if the benefits outweigh the risks.

Cases of nephrolithiasis have been reported with the use of mesalamine, including stones with a 100% mesalamine content. It is recommended to ensure adequate fluid intake during treatment.

Patients on mesalamine, especially those with pre-existing renal disease, should be carefully monitored with urinalysis, and BUN and creatinine testing. Initial assessment and periodic monitoring of the renal function is recommended since mesalamine is substantially excreted by the kidney, and prolonged mesalamine therapy may damage the kidneys.

Because elderly patients are more likely to have decreased renal function, closer monitoring of the renal function may be needed.

### **Sensitivity/Resistance**

Caution should be exercised when mesalamine (5-ASA) is initially used in patients known to be allergic to sulfasalazine. These patients should be instructed to discontinue therapy if signs of rash or pyrexia become apparent. In case of an allergic reaction, appropriate measures (standard of care) should be taken.

## **Skin**

### **Severe Cutaneous Reactions:**

Severe cutaneous adverse reactions (SCARs), including Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), have been reported in association with mesalamine treatment. Mesalamine should be discontinued at the first appearance of signs and symptoms of severe skin reactions, such as skin rash, mucosal lesions, or any other sign of hypersensitivity.

### **Photosensitivity:**

Patients treated with mesalamine or sulfasalazine who have pre-existing skin conditions such as atopic dermatitis and atopic eczema have reported more severe photosensitivity reactions. Advise patients to avoid sun exposure, wear protective clothing, and use a broad-spectrum sunscreen when outdoors.

## **7.1 Special Populations**

### **7.1.1 Pregnant Women**

SALOFALK should be used during pregnancy only if the benefits clearly outweigh the risks to the foetus. 5-ASA is known to cross the placental barrier, and no clinical studies have been performed in pregnant women.

Animal studies did not show evidence of impaired fertility or harm to the foetus due to mesalamine. See [16 NON-CLINICAL TOXICOLOGY](#), however, because animal reproduction studies are not always predictive of human response, SALOFALK should be used during pregnancy only if clearly needed.

### **7.1.2 Breast-feeding**

There are no clinical trial studies in nursing women. SALOFALK should be used in nursing women only if the benefits to the mother clearly outweigh the risks to the child. Mesalamine and its main metabolite N-acetyl-5-ASA are excreted in breast milk. The concentration of mesalamine is much lower than in maternal blood, but the metabolite N-acetyl-5-ASA appears in similar concentrations.

When mesalamine is used in nursing women, infants should be monitored for changes in stool consistency. If the infant develops diarrhoea, breastfeeding should be discontinued. Cases of diarrhoea in breastfed infants exposed to mesalazine have been reported.

Isolated weight decrease in nursing infant has been reported during post-marketing experience with mesalamine.

### **7.1.3 Pediatrics**

Information on the safety and efficacy of SALOFALK 2 g/ 60 g and 4 g/ 60 g rectal suspensions in children is limited. Use of the drug should be limited to situations where a clear benefit is expected.

SALOFALK should not be used in infants/toddlers aged less than 2 years of age.

### **7.1.4 Geriatrics**

Clinical studies of mesalamine did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose



selection for an elderly patient should be cautious, reflecting the greater frequency of decreased hepatic, renal, or cardiac function or concomitant disease or other drug therapy.

Mesalamine is substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, it may be useful to monitor renal function.

## **8 ADVERSE REACTIONS**

### **8.1 Adverse Reaction Overview**

Hypersensitivity reactions have been reported in a sub-group of patients known to be allergic to sulfasalazine including rash, pyrexia, and dizziness with reactions occurring at the onset of therapy and resolving promptly following discontinuation.

Other manifestations of hypersensitivity reported with mesalamine include acute pancreatitis, hepatitis, pericarditis, interstitial nephritis, interstitial pneumonia and pleural effusion. Interstitial pneumonia, pancreatitis and pericarditis have also been reported as manifestations of inflammatory bowel disease

As with all 5-ASA products, exacerbations of ulcerative colitis characterized by cramping, acute abdominal pain and diarrhoea have been reported with mesalamine.

Other reported side effects include headache, flatulence, nausea, and hair loss, but do not appear to be common. Retreatment is not always associated with repeated hair loss. Aplastic anaemia has been reported in the literature with unspecified formulations of mesalamine.

### **8.2 Clinical Trial Adverse Reactions**

Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful in identifying and approximating rates of adverse drug reactions in real-world use.

**Table 1 Clinical Trial Adverse Events Reported in > 0.1% of patients**

	<b>SALOFALK N=841 (%)</b>	<b>Placebo N=176 (%)</b>
<b>Cardiac Disorders</b>		
Pericarditis	0.1	0.0
<b>Gastrointestinal Disorders</b>		
Abdominal pain	7.9	7.9
Flatulence	6.0	4.5
Nausea	5.6	6.8
Diarrhoea	2.1	3.9
Abdominal distension	1.4	1.1
Haemorrhoids	1.3	0.0
Proctalgia	1.1	0.0
Constipation	0.9	2.2
Anorectal discomfort	0.5	1.7
Pancreatitis	0.1	0.0
Condition aggravated	0.1	0.0
<b>General Disorders and Administration Site Conditions</b>		
Fatigue	3.3	4.5
Pyrexia	3.0	0.0
Administration site reaction	1.3	0.5
Oedema peripheral	0.5	6.2
Asthenia	0.1	2.2
<b>Infections and Infestations</b>		
Influenza	5.2	0.5
Urinary tract infection	0.5	2.2
Upper respiratory tract infection	0.1	0.5
<b>Musculoskeletal, and Connective Tissue Disorders</b>		
Arthralgia	2.0	1.1
Back pain	1.3	0.5
<b>Nervous System Disorders</b>		
Headache	6.7	11.3
Dizziness	1.7	2.8
Insomnia	0.1	1.7
<b>Respiratory, Thoracic and Mediastinal Disorders</b>		
Pharyngolaryngeal pain	2.0	2.8
<b>Skin and Subcutaneous Tissue Disorders</b>		
Rash	2.8	2.2
Spots	2.2	5.1
Pruritus	1.1	0.5
Alopecia	0.8	1.1

**8.2.1 Clinical Trial Adverse Reactions – Pediatrics**

Not Available.

### 8.3 Less Common Clinical Trial Adverse Reactions

Not Available.

### 8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data Clinical Trial Findings

Not Available.

### 8.5 Post-Market Adverse Reactions

The following adverse reactions have been identified during the post-approval use of SALOFALK. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

**Blood and Lymphatic System Disorders:** Agranulocytosis

**Cardiac Disorders:** Myocarditis

**Gastrointestinal Disorders:** Abdominal pain (upper, lower), Abdominal cramps, Abdominal discomfort, Constipation, Diarrhoea, Faeces discoloured (pale), Flatulence, Rectal tenesmus

**General Disorders and Administration Site Conditions:** Fatigue, Medication residue, Pyrexia, Mesalamine-induced acute intolerance syndrome

**Hepatobiliary Disorders:** Hepatic impairment, including hepatic failure or hepatitis

**Musculoskeletal and Connective Tissue Disorders:** Back pain, Neck pain

**Nervous System Disorders:** Dizziness, Headache

**Renal and Urinary Disorders:** Chromaturia, Nephrolithiasis

**Respiratory, Thoracic and Mediastinal Disorders:** Allergic and fibrotic lung reactions, Eosinophilic pneumonia, Interstitial alveolitis, Pleurisy

**Skin and Subcutaneous Tissue Disorders:** Acute febrile neutrophilic dermatosis, Photosensitivity, Pruritus, Rash (erythematous, papular), Stevens-Johnson Syndrome (SJS), Toxic Epidermal Necrolysis (TEN), Urticaria

The following adverse events have been identified during the post-approval use of mesalamine products:

**Immune System Disorder:** Anaphylactic reaction, Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)

## 9 DRUG INTERACTIONS

### 9.2 Drug Interactions Overview

Interaction between azathioprine, 6-mercaptopurine and aminosalicylates (including mesalamine) can increase the risk of leucopenia. Other potential interactions with a number of drugs could occur. See [9.4 Drug-Drug Interactions](#).

### 9.3 Drug-Behavioural Interactions

Not Available.

#### **9.4 Drug-Drug Interactions**

Interaction between azathioprine, 6-mercaptopurine and aminosalicylates including mesalamine, has been reported with oral mesalamine. Concomitant treatment with mesalamine can increase the risk of myelosuppression in patients receiving azathioprine or 6-mercaptopurine. An increase in whole blood 6-thioguanine nucleotide (6-TGN) concentrations has been reported although the mechanism of this interaction remains unclear.

Mesalamine could also increase renal and hematologic toxicity of methotrexate by additive effect and diminished absorption of folic acid.

The hypoglycemic effect of sulfonylureas may be enhanced. Interactions with coumarin, methotrexate, probenecid, sulfapyrazone, spironolactone, furosemide and rifampicin cannot be excluded. Potentiation of undesirable glucocorticoid effects on the stomach is possible.

A theoretical interaction of salicylates with Varicella Virus Vaccine (chicken pox vaccine) might increase the risk of Reye's syndrome; as a result, the use of salicylates (including mesalamine) is discouraged for six weeks following Varicella vaccination.

The concurrent use of mesalamine with known nephrotoxic agents, including nonsteroidal anti-inflammatory drugs (NSAIDs) may increase the risk of nephrotoxicity. Monitor patients taking nephrotoxic drugs for changes in renal function and mesalamine-related adverse reactions.

#### **9.5 Drug-Food Interactions**

Interactions with food have not been established.

#### **9.6 Drug-Herb Interactions**

Interactions with herbal products have not been established.

#### **9.7 Drug-Laboratory Test Interactions**

Several reports of possible interference with measurements, by liquid chromatography, of urinary normetanephrine causing a false-positive test result have been observed in patients exposed to sulfasalazine or its metabolite, mesalamine/mesalazine.

### **10 CLINICAL PHARMACOLOGY**

#### **10.1 Mechanism of Action**

The mechanism of action of mesalamine (5-aminosalicylic acid, 5-ASA) is not fully understood, but appears to be topical rather than systemic. Inflammatory intestinal disease is often accompanied by diffuse tissue reactions including ulceration and cellular infiltration of lymphocytes, plasma cells, eosinophils, polymorphonuclear cells and activated phagocytic cells.

The interference of mesalamine with either leukotriene or prostaglandin metabolism may play a major role in suppressing the inflammatory response mechanism. 5-ASA prevents accumulation of thromboxane B<sub>2</sub> and 6-keto-prostaglandin F<sub>1</sub>. Both 5-ASA and SAS reverse H<sub>2</sub>O, and Cl<sup>-</sup> secretion and increase Na<sup>+</sup> secretion in experimentally-induced colitis in guinea pigs. SAS and 5-ASA are known to inhibit polymorphonuclear cell migration possibly via lipoxygenase inhibition at concentrations lower than those required to inhibit prostaglandin synthesis. It is thus possible that both SAS and 5-ASA are capable of inhibiting both pathways via lipoxygenase inhibition.

Intestinal secretion is stimulated not only by prostaglandins but also by the metabolites of arachidonic acid generated via the lipoxygenase pathway. Upon phagocytic activation and arachidonic acid metabolism activation, reactive oxygen metabolites are generated<sup>35</sup>. 5-ASA acts as a dose dependent antioxidant which scavenges oxygen derived free radicals produced by activated phagocytes. In addition, 5-ASA associates with the membrane surface, allowing chain breaking anti-oxidant activity when peroxidation is initiated within the membrane. 5-ASA is able to block initiation of oxidation from solution as well as propagation within the membrane. 5-ASA also inhibits the formation of both eicosanoids and cytokines.

## 10.2 Pharmacodynamics

SALOFALK rectal suspension contains mesalamine (5-aminosalicylic acid, 5-ASA), the active principle of the prodrug sulfasalazine. Although the 5-ASA mode of action is not clear, it appears to be multifactorial. 5-ASA is thought to affect the inflammatory process through its ability to inhibit prostaglandin synthesis, interfere with leukotriene synthesis and consequent leukocyte migration as well as act as a potent scavenger of free radicals. Regardless of the mode of action, 5-ASA appears to be active mainly topically rather than systemically.

### Animal Studies

5-ASA (mesalamine) is the active moiety of the prodrug sulfasalazine which acts to suppress inflammatory bowel disease. Animal pharmacology tests were conducted on 5-ASA using the oral route of administration for most tests, at a dose of 500 mg/kg in order to simulate practice relevant conditions. No adverse effect of 5-ASA on the following parameters or in the following animal pharmacology tests could be established: tremorine antagonism, hexobarbital sleep time, motor activity, anticonvulsant action (metrazol and electric shock), blood pressure, heart rate, respiratory rate (up to 10 mg/kg, i.v.), tocolysis (antispasmodic assay), local anaesthesia, antihyperthermal and antipyretic effects. In the paw-edema test with carrageen injection, 200 mg/kg *per os* proved ineffective, but 500 mg/kg 5-ASA *per os* exhibited mild antiphlogistic action.

In the animal renal function tests (natriuresis and diuresis), no biologically relevant effects of 200 mg/kg *per os* were demonstrated. After 600 mg/kg, marked functional changes were observed: increases in total urinary output, natriuresis and proteinuria. The urinary sediment contained an increased number of erythrocytes and epithelial cells. Both potassium elimination and specific weight were reduced. It can be concluded from these experiments that even high doses of 5-ASA have no effect on vital parameters. Disturbances in renal function are to be expected only at dosages equivalent to a single dose at least 8 to 10 times the daily dose in man.

## 10.3 Pharmacokinetics

### Absorption

Systemic absorption of rectally administered 5-ASA (mesalamine) is low as shown by urinary recoveries which range from 5 % to 35% of the amount given. In contrast, oral administration of free 5-ASA leads to high systemic absorption with rapid absorption from the small intestine; however, this route of administration provides for a reduced chance of topical effectiveness in the distal bowel. Rectally administered 5-ASA thus acts locally on the recto-sigmoidal colon. Satisfactory dosages (4 g mesalamine rectal suspension) have reached the splenic flexure.

### Distribution

Rectal administration allows for direct targeting of free 5-ASA to the sites of inflammation along the

mucosal lumen of the rectum, sigmoid and distal large bowel. Free intraluminal 5-ASA is taken up by mucosal cells, where it is acetylated and inactivated as N-Ac-5-ASA. Following rectal dosing, both free 5-ASA and its inactive metabolite, N-Ac-5-ASA, can be found within 1-2 hours post administration in plasma.

### **Metabolism**

5-ASA metabolism is metabolised by acetylation. The only major metabolite of 5-ASA identified in man is N-acetyl-5-aminosalicylic acid (N-Ac-5-ASA). Following rectal dosing, both free and acetylated forms can be found in plasma within 1-2 hours post administration. Usually plasma concentrations are low and do not exceed a maximum serum level of about 10 mcg/mL at rectal daily doses of up to 4 grams. Peak plasma levels of rectally administered 5-ASA (4 g rectal suspension) are reached within 3 to 6 hours, with a value of  $2.6 \pm 2.3$  mcg/mL. Plasma levels are therefore negligible approximately 24 hours after dosing. Following mucosal absorption, passage through the liver results in further acetylation. These results are consistent with pharmacokinetic parameters as measured for 5-ASA and its metabolites determined in studies with solid oral dosage forms. In solid oral dosage studies, it has been determined that 5-ASA and its metabolite N-Ac-5-ASA are short lived in the serum with a half-life reported between 0.5-1.5 hours and 5-10 hours, respectively; 5-ASA is partially absorbed, excreted rapidly ( $t_{1/2} = 0.4 - 2.4$  hours), and partially recovered unchanged in the faeces.

The influence of renal and hepatic impairment on pharmacokinetics of mesalamine has not been evaluated.

### **Elimination**

The kidneys excrete both free 5-ASA and acetylated forms (N-Ac-5-ASA) into the urine. Urinary clearance of absorbed drug occurs rapidly, mainly as the acetylated metabolite. The recovery rate in urine varies between 8 and 17 percent of the administered rectal dose. Unabsorbed drug is excreted as the free and acetylated forms via faeces.

## **11 STORAGE, STABILITY AND DISPOSAL**

SALOFALK is packaged in aluminum foil and should be stored at room temperature preferably under 25°C. Product expiration date and lot number are printed on the bottle base.

Disposal of SALOFALK should be in keeping with recommendations governing the disposal of pharmaceutical waste.

## **12 SPECIAL HANDLING INSTRUCTIONS**

SALOFALK suspension color may vary from off white to brown. Exposure to air could make the product darker. SALOFALK will cause staining of direct contact surfaces, including but not limited to fabrics, flooring, painted surfaces, marble, granite, vinyl, and enamel.

## PART II: SCIENTIFIC INFORMATION

### 13 PHARMACEUTICAL INFORMATION

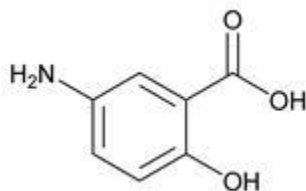
#### Drug Substance

Proper name: 5-aminosalicylic acid, mesalamine

Chemical name: 5-aminosalicylic acid (5-ASA)

Molecular formula and molecular mass: C<sub>7</sub>H<sub>7</sub>NO<sub>3</sub> 153.14

Structural formula:



Physicochemical properties:

Description: 5-aminosalicylic acid is a light tan to pink, needle shaped, crystalline powder.

Solubility: Slightly soluble in water, very slightly soluble in methanol and practically insoluble in chloroform; soluble in diluted HCl and diluted alkali hydroxides.

Melting Range: 272°-280°C

### 14 CLINICAL TRIALS

#### 14.1 Clinical Trials by Indication

##### Ulcerative colitis

**Table 2 Summary of patient demographics for clinical trials in patients with ulcerative colitis**

Study #	Study design	Dosage, route of administration and duration	Study subjects (n)	Mean age (years)	Sex
Study 1	A 6-week, randomized, placebo-controlled, double-blind trial.	4 g, Rectal suspension	n = 59 4 g: n=29 Placebo: n=30	4 g: 40 Placebo: 36	4 g: [17 M/ 12 F] Placebo: [14 M/ 16 F]
Study 2	A 6-month, randomized, double-blind trial.	2 g and 4 g Rectal suspension	2 g: n=15 4 g: n=14	2 g: 39 4 g: 37.2	2 g: [5 M/ 10 F] 4 g: [7 M/ 7 F]

Study 1: In a 6-week, randomized, placebo-controlled, double-blind trial in 59 patients with ulcerative colitis, Sutherland *et al*, demonstrated the safety and efficacy of 4 g mesalamine rectal suspension. The study population was composed of outpatients, age 18 or older who had ulcerative colitis involving 5-50 cm of colon continuously from the anus, confirmed by sigmoidoscopy with biopsies taken from an area of active disease and above the disease boundary. Patients also had to have a minimum score of 3 on a 12-point DAI (Disease Activity Index).

In a separate study (Study 2), the efficacy and safety of mesalamine rectal suspension 2 g/60 g and 4 g/60 g in the maintenance of remission were evaluated in a 6-month, randomized, double-blind trial in 29 patients who had ulcerative colitis. Before admission to the study, patients had participated in a placebo-controlled mesalamine rectal suspension study and had achieved a significant improvement in their disease activity or were in remission. Patients had a maximum score of 4 on a 12-point DAI.

In both studies, pregnant women were excluded, as were patients with history of salicylate allergy, previous bowel resection, or clinically significant hepatic or renal disease. The designs of the two studies are summarized in [Table 2](#).

## Study Results

In Study 1, there was a significant improvement in disease symptoms in the treatment group ( $p < 0.0001$ ) compared to the placebo group after 6 weeks of treatment. The mean disease activity index (DAI) decreased by 75% in the treatment group compared to 32% for placebo ( $p < 0.05$ ). The rectal suspension was well tolerated with few and insignificant side effects.

In Study 2, further significant declines in DAI were demonstrated for both dose groups during the first 3 months of therapy ( $p < 0.001$ ). There was no significant difference in DAI scores between 3 and 6 months, or between the 2g/60g/day and 4 g/60 g/day doses. Two patients in the 2g/60g dose group and 3 patients in the 4 g/60 g dose group relapsed during the 6 month study period. Relapse rates did not differ significantly.

## 15 MICROBIOLOGY

No microbiological information is required for this drug product.

## 16 NON-CLINICAL TOXICOLOGY

### General Toxicology

Long-term Toxicity: Animal studies to date show the kidney to be the only significant target organ for 5-ASA toxicity in rats and dogs. At high doses, the lesions produced consisted of papillary necrosis and multifocal proximal tubular injury. In rats, the no-effect levels were 160 mg/kg/day for females and 40 mg/kg/day for males (minimal and reversible tubular lesions seen) after 13 weeks of oral administration. In dogs, the no-effect level in both males and females was 40 mg/kg/day after 6 months of oral administration. In this six-month oral toxicity study in dogs, doses of 80 mg/kg/day (about 1.4 times the recommended human intra-rectal dose, based on body surface area) and higher, caused renal pathology similar to that described for the rat. In a rectal toxicity study of mesalamine suppositories in dogs, a dose of 166.6 mg/kg (about 3.0 times the recommended human intra-rectal dose, based on body surface area) produced chronic nephritis and pyelitis. Aside from gastric lesions, heart lesions and bone marrow depression seen in some of the rats at the 640 mg/kg level and considered secondary effects of kidney damage, no other signs of systemic toxicity were noted at daily doses up to 160 mg/kg in rats and 120 mg/kg in dogs for 13 weeks and six months, respectively.



In the 12-month oral toxicity study in dogs, keratoconjunctivitis sicca (KCS) occurred at oral doses of 40 mg/kg/day (about 0.72 times the recommended human intra-rectal dose, based on body surface area) and above.

**Carcinogenicity:** Administration of doses of 0, 50, 100 and 320 mg/kg/day for 127 weeks in rats did not result in significant differences in unscheduled deaths, clinical signs, nodules or masses, between groups. Ophthalmoscopic investigations revealed no treatment-related changes. Treatment with SALOFALK was not associated with oncogenic changes or an increased tumor risk. The assessment of hematology, clinical biochemistry and urinalysis indicated no changes of toxicological significance at 13, 26 and 52 weeks of treatment.

After 127 weeks, analysis of the lesions indicated slight substance-related and dose-dependent toxic changes as degenerative kidney damage and hyalinization of tubular basement membrane and Bowman's capsule in the 100 mg and 320 mg/kg/day groups. Ulceration of the gastric mucosa and atrophy of the seminal vesicles were also more frequent in the 320 mg/kg/day group.

**Genotoxicity:** 5-ASA was not mutagenic in the Ames test, *E. coli* reverse mutation assay, mouse micronucleus test, sister chromatid exchange assay, or in a chromosomal aberrations assay. In contrast, sulfapyridine, which is the other primary metabolite of salicylazosulfapyridine, has tested positive in certain mutagenicity tests.

**Reproductive and Developmental Toxicology:** Teratology studies with 5-ASA have been performed in rats at oral doses up to 320 mg/kg/day and in rabbits at oral doses up to 495 mg/kg/day (about 1.7 and 5.4 times the recommended human intra-rectal dose, respectively). The battery of tests completed to date has shown that 5-ASA is devoid of embryotoxicity and teratogenicity in rats and rabbits; that it does not affect male rat fertility after five weeks of oral administration at 296 mg/kg/day; and that it lacks the potential to affect late pregnancy, delivery, lactation or pup development in rats.

#### **Other Studies**

**Nephrotoxic potential of 5-aminosalicylic acid:** Owing to its structural relationship to phenacetin, the aminophenols and salicylates, 5-ASA was included in a series of compounds studied following identification of antipyretic-analgesic nephropathy in humans. Calder *et al.* has reported in rats that in addition to the proximal tubule necrosis seen with acetylsalicylic acid (e.g. Aspirin®) and phenacetin derivatives, 5-ASA produced papillary necrosis, following single intravenous doses ranging from 150 mg/kg to 872 mg/kg.

Diener *et al.* have shown that oral doses of 5-ASA of 30 mg/kg and 200 mg/kg daily for four weeks failed to produce any adverse effects on kidney function or histology in rat.

In a 13-week rat study, there were no renal lesions after four weeks in the animals receiving up to 160 mg/kg orally per day, but severe papillary necrosis and proximal tubular injury were seen in most animals receiving 640 mg/kg orally per day. At 13 weeks, the female animals were free of pathology up to 160 mg/kg; minimal and reversible lesions in the tubules occurred in a few males (with no changes in renal function) at the 40 mg/kg/day level. After six months of oral administration in dogs, no toxicity was seen in the 40 mg/kg/day group. At 80 mg/kg/day, two of eight treated dogs showed slight to moderate renal papillary necrosis. These dogs as well as two others showed minimal to moderate tubular lesions. At 120 mg/kg/day, two females had slight papillary necrosis. These and two others showed minimal to moderate tubule injury.

**5-ASA rectal irritation challenge in dogs:** A rectal mucosa irritation study was designed and conducted to determine if 5-ASA rectal suspension causes any mucosal tissue stress either histologically or

macroscopically. The test was carried out blind against placebo, administering one rectal suspension per day.

Treated dogs (n = 10) received 2.0 g of 5-ASA which was retained for an average of 5.5 hours over the 27-day study. The placebo group (n = 6) received suspensions of the same vehicle composition, but without 5-ASA. Calcium carbonate and food colouring were used in place of 5-ASA to mimic its appearance in the suspension formula. The rectal suspension control group (n = 2) received physiological saline enemas of equivalent volume daily. Seven days prior to dosing and after Days 15 and 30, all animals were given a proctologic examination with rectal biopsy. The histopathology data revealed no signs of significant irritation in either the treated or the control group. There was an increased incidence of edema of the lamina propria of the rectum in both the treated and control groups. These lesions represent the mildest form of inflammation normally expected in the rectum. This mucosal inflammation is a completely reversible alteration and is probably the result of mild superficial irritation. There was no significant difference in the incidence and or severity of these changes between the treated and control groups.

The anorectal examination data revealed no signs of irritation in either treated or control group animals. The amount of mucus present in the rectum increased with time in all dogs, but did not exceed minimal severity. There was no significant difference between treated and control groups in the incidence and/or degree of severity of anorectal examination.

In conclusion, these data indicated no significant rectal mucosal tissue irritation in dogs related to the daily rectal administration of 2 g of 5-aminosalicylic acid rectal suspension over a period of 27 days.

## **PATIENT MEDICATION INFORMATION**

### **READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE**

Pr **SALOFALK**<sup>®</sup>

#### **Mesalamine rectal suspension USP**

Read this carefully before you start using **SALOFALK** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **SALOFALK**.

#### **What is SALOFALK used for?**

SALOFALK 4 g/60 g is used to manage a condition called distal ulcerative colitis (inflammation of the lining of the large bowel and rectum). It may also be used in preventing the symptoms of the disease from happening again. SALOFALK 4 g/60 g can be used in combination with other drugs.

The lower strength of SALOFALK 2 g/60 g may also be used in preventing the symptoms of distal ulcerative colitis from happening again.

#### **How does SALOFALK work?**

SALOFALK is believed to reduce the activity of certain chemicals in your body that cause inflammation (e.g., prostaglandins). This helps to reduce the swelling and pain in your rectum and lower part of your large bowel.

#### **What are the ingredients in SALOFALK?**

Medicinal ingredients: mesalamine (me-SAL-a-meen), also known as 5-aminosalicylic acid, 5-ASA or mesalazine.

Non-medicinal ingredients: carbomer, edetate disodium, potassium acetate, potassium metabisulfite, purified water, sodium benzoate and xanthan gum.

SALOFALK is gluten-free and phthalate-free.

#### **SALOFALK comes in the following dosage forms:**

Rectal suspension: 2 g/60 g and 4 g/60 g

#### **Do not use SALOFALK if:**

- You are a patient with severe kidney (renal) problems and/or severe liver (hepatic) problems
- You are allergic to mesalamine or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container
- You have a sensitivity to salicylates, for example acetylsalicylic acid (Aspirin<sup>®</sup>)

- You have stomach or small intestinal ulcers
- You have a blockage in your urinary tract
- The patient is an infant under two years of age

**To help avoid side effects and ensure proper use, talk to your healthcare professional before you use SALOFALK. Talk about any health conditions or problems you may have, including if you:**

- have eczema (dry, itchy rashes on your skin) or a skin condition called atopic dermatitis.
- have a pre-existing liver disease. There have been reports of liver (hepatic) failure and increased liver enzymes in patients treated with 5-ASA or mesalazine (=mesalamine) products.
- have inflammation of the heart muscle and lining around the heart. Your healthcare professional will decide if this product is right for you.
- have stomach pain
- have mild to moderate problems with your liver function. Your healthcare professional will decide if this product is right for you.
- ever had any unusual or allergic reaction to sulfasalazine (SAS) or sulphites
- have mild to moderate problems with your kidney. Your healthcare professional will decide if this product is right for you.
- have bleeding or clotting disorders
- have higher than normal blood urea nitrogen (BUN) levels (kidney function test)
- have higher than normal serum creatinine levels (kidney function test)
- have higher than normal proteins in your urine (proteinuria)
- are pregnant or breastfeeding. Mesalamine is excreted in human breast milk. Your healthcare professional will decide if this product is right for you.

While using SALOFALK:

- Discontinue use at first sign of rash or fever.
- Your healthcare professional may test your blood or urine regularly to monitor your kidney function since prolonged use of SALOFALK may damage your kidneys.

**Other warnings you should know about:**

Kidney stones may develop with use of mesalamine. Symptoms may include blood in urine, urinating more often and pain in your back, side, belly or groin. Be sure to drink enough liquids while you are using SALOFALK. Talk to your healthcare professional about how much water or other liquids you should be drinking.

If you breastfeed your baby while taking SALOFALK, your baby could develop/start to have diarrhoea. It is important to monitor your baby's stool and contact your healthcare professional right away if they have diarrhoea. Your healthcare professional may advise you to stop breastfeeding your baby.

Tell your healthcare professional if you have eczema or atopic dermatitis. Your skin may be more sensitive to sunlight when taking SALOFALK. You should avoid the sun and wear protective clothing and a broad-spectrum sunscreen when you are outdoors.

SALOFALK can cause serious skin reactions. Stop taking SALOFALK and get immediate medical help if you have any symptoms of serious skin reactions. These include: reddish, flat circular patches with blisters on the skin or inside the mouth, eyes, nose, or genitals. Fever may occur before the severe skin rashes appear.

**Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.**

**The following may interact with SALOFALK:**

Interaction between azathioprine, 6-mercaptopurine, sulfonyleureas, anti-inflammatory drugs (NSAIDS) and aminosalicylates (such as SALOFALK) has been reported.

Drug interactions with coumarin, methotrexate, probenecid, sulfinpyrazone, spironolactone, furosemide, rifampicin, and Varicella Virus Vaccine (chicken pox vaccine) may be possible.

**How to use SALOFALK:**

- Take SALOFALK exactly as your healthcare professional has told you.

You will achieve the best results if you empty your bowel immediately before using SALOFALK.

1. Preparing the medication for administration:

- a) Shake the bottle well to make sure that the suspension is all one colour.
- b) Remove the protective sheath from the applicator tip. Hold the bottle at the neck so that the medication does not fall out of the bottle.

2. Getting into the correct body position:

- a) Lay on your left side with your left leg extended. Bend your right leg forward for balance. You can also lay the other way around if you are left-handed.
- b) Instead of lying down on your side, you can also be in the "knee-chest" position.

3. Administering the rectal suspension:

- a) Gently insert lubricated applicator tip into your rectum, pointed slightly toward the navel (umbilicus).
- b) Hold the bottle firmly, then tilt slightly so that the nozzle is aimed toward the back, and squeeze slowly to release the medication. Keep your hand at a steady pressure. This will discharge most of the suspension. After administering, withdraw and discard the used bottle.

- c) Remain in this position for at least 30 minutes for maximum benefit. Keep the suspension in your rectum all night, if possible.

**Usual dose:**

**When you are experiencing symptoms (acute episodes):**

Use one 4 g/60 g bottle daily at bedtime. Keep the medication in your rectum for as long as possible. This will help to achieve the maximum benefit.

Your healthcare professional may run tests to see how you are responding to the medication. Your healthcare professional may adjust your dose as needed. Do not stop taking SALOFALK without discussing it with your healthcare professional first.

**To prevent symptoms from reoccurring (prevention of relapses):**

Use one 2 g/60 g bottle daily at bedtime to prevent your symptoms from coming back. Alternatively, use 4 g/60 g bottle every second or third day, depending upon your condition.

Continued use for a certain period may be recommended by your healthcare professional to prevent symptoms from recurring. Check with your healthcare professional should symptoms such as diarrhoea and rectal bleeding recur.

**Overdose:**

If you think you, or a person you are caring for, have used too much SALOFALK, contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

**Missed Dose:**

If you miss a dose of SALOFALK, use it as soon as possible, unless it is almost time for the next dose. Do not use two SALOFALK doses at the same time to make up for a missed dose.

**What are possible side effects from using SALOFALK?**

These are not all the possible side effects you may feel when using SALOFALK. If you experience any side effects not listed here, tell your healthcare professional.

Side-effects reported during clinical trials with SALOFALK include:

- anorectal pain or discomfort
- bloating
- constipation
- diarrhoea
- dizziness

- fever
- flu like symptoms
- haemorrhoids
- hair loss
- having gas (flatulence)
- headache
- inflammation/swelling of the throat
- itching
- lower back or joint pain
- nausea
- rash
- reaction at site of administration
- sleeplessness
- stomach pain
- swollen hands or lower legs
- tiredness or weakness
- urinary tract infection

Side effects reported with post-marketing use of SALOFALK:

- abnormal stool colour
- abnormal urine colour
- cough
- feeling of incomplete defecation
- hives
- increased sensitivity to sunlight
- medication residue
- neck pain
- stomach cramps or discomfort

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop using drug and get immediate medical help
	Only if severe	In all cases	
<b>UNCOMMON</b>			
<b>Chest Pain</b>			✓

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop using drug and get immediate medical help
	Only if severe	In all cases	
<b>Kidney stones</b> (hard little pebbles that form in your kidneys): blood in urine, urinating more often and pain in your back, side, belly or groin.		✓	
<b>UNKNOWN</b>			
<b>Pancreatitis</b> (inflammation of the pancreas): abdominal pain, nausea, vomiting, fever, rapid heartbeat, and feeling tired.			✓
<b>Allergic reaction</b> (hypersensitivity): rash, itching, fever, swelling of the mouth and throat, and difficulty in breathing.			✓
<b>Kidney Problems</b> (inflammation of the kidney or kidney failure): blood in the urine, fever, increased or decreased urine output, mental status changes (drowsiness, confusion, coma), swelling of the body, weight gain (from retaining fluid).			✓
<b>Myocarditis/ Pericarditis</b> (inflammation of the heart muscle and lining around the heart): pain in the chest, abnormal heartbeat, fatigue, fever, difficulty in breathing, accumulation of fluid in the lung, and coughing.			✓
<b>Liver problems/Hepatitis</b> (inflammation of the liver): severe abdominal pain, nausea, vomiting, yellowing of the skin and eyes, drop in appetite, bloating and distension.			✓
<b>Acute intolerance syndrome:</b> cramping, stomach pain, bloody and excessive stools, fever, headache and rash.			✓
<b>Interstitial pneumonia</b> (lung abnormality with scarring): difficulty in breathing, dry cough, fever, and persistent unwell feeling.			✓
<b>Blood Problems/Aplastic anaemia/Agranulocytosis</b> (shortage of one or more types of blood cells): fatigue, difficulty in breathing with exertion, rapid or irregular heartbeat, pale skin, frequent or prolonged infections, unexplained or easy bruising, nosebleeds, bleeding gums, prolonged bleeding from cuts, skin rash, dizziness, and headache.			✓
<b>Pleurisy</b> (accumulation of fluid in the lungs): dry cough, chest pain, difficulty breathing.			✓



Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop using drug and get immediate medical help
	Only if severe	In all cases	
<b>Serious Skin Conditions:</b> reddish, flat circular patches with blisters on the skin or inside the mouth, eyes, nose, or genitals. Fever may occur before the severe skin rashes appear.			✓
<b>Worsening of ulcerative colitis:</b> worsening of stomach cramps or pain or diarrhoea.		✓	

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

### Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

*NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.*

### Storage:

Store SALOFALK at room temperature, preferably under 25°C. The expiration date and lot number are printed on the bottle.

Suspension colour may vary from off white to brown. Keep the medicine from light and air.

Keep out of reach and sight of children.

**NOTE:** SALOFALK will cause staining of direct contact surfaces, including but not limited to fabrics, flooring, painted surfaces, marble, granite, vinyl, and enamel.

### If you want more information about SALOFALK:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website: (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the manufacturer's website [www.abbvie.ca](http://www.abbvie.ca) or by calling 1-888-704-8271.

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