

Active / Product Name: Albendazole
Approval Date: 16 March 2018
GDS Reference Number: ALB v2.0
Product Type: Medicinal

GLOBAL DATASHEET

Albendazole

Non-prescription for treatment of

INTESTINAL INFECTIONS AND CUTANEOUS LARVA MIGRANS

Document ID: 0900c35380d8351f Version: 1.0 Status: (Internally) Effective on 20-Mar-2018

1 **GLOBAL TECHNICAL INFORMATION**

2 **TITLE**

3 Albendazole.

4 **SCOPE**

5 **Trade Name[s]***

6 The Trade names for this product include:

INTESTINAL INFECTIONS AND CUTANEOUS LARVA MIGRANS (Short duration treatment at low dose)
ZENTEL
ALBEN
NEMATIL
AZENTEL

7

8 *Trade marks are owned by or licensed to the GSK group of companies. “© 2018 GSK group of
9 companies or its licensor” should be added to the page on which the trade name(s) appear.

10

11 **Formulation and Strength**

12 Tablets: 200 mg, 400 mg.

13 Suspension: 400 mg/20 ml, 400 mg/10 ml.

14 **Excipients**

15 It is mandatory for country product information to include both the complete list of
16 excipients for all locally marketed presentations, and any locally imposed excipient
17 warning statements.

18

19

Tablets 200 mg (wet granulation only)	Tablets 400 mg (wet granulation only)	Tablets 400 mg (roller-compact)	Suspension
Lactose	Lactose monohydrate	Lactose	Aluminium magnesium silicate
Maize starch	Maize starch	Microcrystalline cellulose	Carboxymethylcellulose sodium
Polyvidone	Povidone	Maize starch	Glycerin
Sodium lauryl sulphate	Sodium lauryl sulphate	Croscarmellose sodium	Polysorbate 80
Sodium starch glycollate	Sodium starch glycollate	Povidone K30	Sorbitan monolaureate
Microcrystalline cellulose	Microcrystalline cellulose	Sodium lauryl sulphate	Potassium sorbate
Sodium saccharin	Sunset yellow lake	Sunset yellow lake	Benzoic acid (see Warnings and Precautions)
Magnesium stearate	Sodium saccharin	Sodium saccharin	Sorbic acid
	Magnesium stearate	Magnesium stearate	Silicone antifoam 1510
	Flavourings	Flavourings	Saccharin sodium
			Flavourings
Film coating	Film coating		
Methylhydroxypropylcellulose 15	Methylhydroxypropylcellulose 15		
Methylhydroxypropylcellulose 5	Methylhydroxypropylcellulose 5		
Propylene glycol.	Propylene glycol.		

20

21 **CLINICAL INFORMATION**

22 **Indication(s)**

23 Albendazole is a benzimidazole carbamate with antihelmintic and antiprotozoal
 24 activity against intestinal and tissue parasites.

25 Albendazole is indicated in the treatment of the following clinical conditions caused
 26 by sensitive intestinal helminths/protozoa:

27 - **Pinworm infection** (enterobiasis)

- 28 - **Hookworm disease** (ancylostomiasis and necatoriasis)
- 29 - **Dwarf tapeworm infection** (hymenolepsiasis)
- 30 - **Pork/beef tapeworm infections** (taeniasis)
- 31 - **Threadworm infection** (strongyloidiasis)
- 32 - **Roundworm infection** (ascariasis),
- 33 - **Whipworm infection** (trichuriasis)
- 34 - **Liver fluke infections** (clonorchiasis and opisthorchiasis)
- 35 - **Hookworm (animal origin) causing skin disease** (cutaneous larva migrans)
- 36 - **Giardia infection** (giardiasis in children)

37 **Dosage and Administration**

38 No special procedures, such as fasting or purging, are required.

39 **If the patient is still symptomatic after a single course of treatment, they must consult**
40 **a Healthcare Professional for further treatment.**

41 **The maximum duration of treatment will vary according to the indication. Please**
42 **refer to the table below for information on maximum doses for each indication. Do**
43 **not exceed the maximum daily doses and treatment durations recommended.**

44 **Not to be used in children aged under 1-year.**

45 **Some people, particularly young children, may experience difficulties swallowing the**
46 **tablets whole and should be encouraged to chew the tablets with a little water,**
47 **alternatively tablets may be crushed. The suspension can also be administered as an**
48 **alternative.**

49

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Infection	Age	Usual Dose	Duration of dose	Maximum Dose Recommended
Pinworm/infection Hookworm disease Roundworm infection Whipworm infection	adults and children over 2 years of age	400 mg	single dose	single dose, 400mg
	children 1 to 2 years of age	200 mg	single dose	single dose, 200mg
Suspected or confirmed Threadworm infection Dwarf Tapeworm† Pork/beef Tapeworm infections	adults and children over 2 years of age	400 mg	Once daily for 3 consecutive days †In cases of proven dwarf tapeworm retreatment in 10 to 21 days is recommended.	400mg per day (1200mg for 3 consecutive days)
Liver fluke	adults and children over 2 years of age	400 mg	Twice daily for 3 days	800mg per day (2400mg over a 3 day period)
Cutaneous larva migrans	adults and children over 2 years of age	400 mg	Once daily for 1 to 3 days	400mg per day (Up to 1200mg over a 3 day period)
Giardia infection	children 2 to 12 years of age only	400 mg	Once daily for 5 days	400mg per day (2000mg over a 5 day period)

52

53 **Populations**

- 54 • Elderly

55 Experience in patients 65 years of age or older is limited. Reports indicate that no
 56 dosage adjustment is required; however, elderly patients with evidence of hepatic
 57 dysfunction must seek advice from a Healthcare Professional before taking this
 58 medicine (*see Hepatic Impairment and Pharmacokinetics*).

59 • Renal Impairment

60 Since renal elimination of albendazole and its primary metabolite, albendazole
61 sulfoxide, is negligible, it is unlikely that clearance of these compounds would be
62 altered in these patients. No dosage adjustment is required; however, patients who
63 have been diagnosed with renal impairment must seek advice from Healthcare
64 Professional before taking this medicine (see *Pharmacokinetics*).

65 • Hepatic Impairment

66 Since albendazole is rapidly metabolized by the liver to the primary
67 pharmacologically active metabolite, albendazole sulfoxide, hepatic impairment
68 would be expected to have significant effects on the pharmacokinetics of albendazole
69 sulfoxide. Patients who have been diagnosed with hepatic impairment must seek
70 advice from a Healthcare Professional before taking this medicine (see
71 *Pharmacokinetics*).

72 **Contraindications**

73 Albendazole must not be used during pregnancy.

74 Albendazole is contraindicated in patients with a known history of hypersensitivity to
75 albendazole or other constituents of the dose forms.

76 **Warnings and Precautions**

77 In order to avoid administering albendazole during early pregnancy, women of
78 childbearing age should initiate treatment within the first 10 days of starting their
79 menstrual period or immediately after a negative pregnancy test.

80 Treatment with albendazole may uncover pre-existing neurocysticercosis, particularly
81 in areas with high rates of tapeworm (taeniasis) infection. Patients may experience
82 neurological symptoms e.g., seizures, increased intracranial pressure and focal signs
83 as a result of an inflammatory reaction caused by death of the parasite within the
84 brain. Symptoms may occur soon after treatment. Patients experiencing such
85 symptoms, after taking this medicine, must seek advice from a Healthcare
86 Professional as soon as possible.

87 Albendazole treatment has been associated with mild to moderate elevations of
88 hepatic enzymes. Hepatic enzymes generally normalise on discontinuation of
89 treatment. Patients diagnosed with hepatic impairment must seek advice from a

90 **Healthcare Professional before taking this medicine** (*see Dosage and Administration:*
91 *hepatic impairment and Adverse Reactions*).

92 **Patients diagnosed with renal impairment must seek advice from a Healthcare**
93 **Professional before taking this medicine** (*see Dosage and Administration: renal*
94 *impairment and Adverse Reactions*).

95 **Keep out of the sight and reach of children.**

96 **Albendazole suspension contains benzoic acid which is a mild irritant to the skin,**
97 **eyes and mucous membrane.**

98 **Interactions**

99 Clinically relevant interactions are not anticipated at the dose and duration of
100 treatment for non-prescription use.

101 **Pregnancy and Lactation**

102 **Fertility**

103 No text

104 **Pregnancy**

105 **Albendazole must not be used during pregnancy (see Contraindications).**

106 **Lactation**

107 Adequate human and animal data on use during lactation are not available. **Thus**
108 **albendazole should not be used during breast feeding unless the potential benefits are**
109 **considered to outweigh the potential risks associated with treatment. Patients who are**
110 **breast feeding must seek advice from a Healthcare Professional prior to taking this**
111 **medicine.**

112 **Ability to perform tasks that require judgement, motor or cognitive skills**

113 Adverse effects on the ability to drive or operate machinery have not been observed.

114 **Adverse Reactions**

115 The following convention is used for classification of adverse reaction frequencies:

Very common	$\geq 1/10$
Common	$\geq 1/100$ and $< 1/10$
Uncommon	$\geq 1/1000$ and $< 1/100$
Rare	$\geq 1/10,000$ and $< 1/1000$
Very rare	$< 1/10,000$

116 **Immune system disorders**

117

118 Rare: Hypersensitivity reactions including rash, pruritus and urticaria

119

120 **Nervous system disorders**

121

122 Uncommon: Headache and dizziness

123

124 **Gastrointestinal disorders**

125

126 Uncommon: Upper gastrointestinal symptoms (e.g. epigastric or abdominal pain,
127 nausea, vomiting) and diarrhoea.

128

129 **Hepatobiliary disorders**

130

131 Rare: Elevations of hepatic enzymes

132

133 **Skin and subcutaneous tissue disorders**

134

135 Very rare: Erythema multiforme, Stevens-Johnson syndrome

136

137 **Overdosage**

138 **Symptoms and Signs (optional)**

139 *No Text*

140 **Treatment**

141 Management should be as clinically indicated or as recommended by the national
142 poisons centre, where available.

143 **Clinical Pharmacology**

144 **Pharmacodynamics**

145 ***ATC Code***

146 P02CA03 QP52AC11

147 ***Mechanism of Action***

148 Albendazole is a benzimidazole carbamate with antiprotozoal and antihelmintic
149 effects against intestinal and tissue parasites. Albendazole exhibits larvicidal,
150 ovicidal and vermucidal activity, and is thought to exert its antihelmintic effect by
151 inhibiting tubulin polymerization. This causes the disruption of the helminth
152 metabolism, including energy depletion, which immobilizes and kills the susceptible
153 helminth.

154 **Pharmacokinetics**

155 ***Absorption***

156 In man, albendazole is poorly absorbed (less than 5%) following oral administration.

157 ***Distribution***

158 Following oral administration of a single dose of 400 mg albendazole, the
159 pharmacologically active metabolite, albendazole sulphoxide, has been reported to
160 achieve plasma concentrations of 0.698 µg/mL when taken with breakfast.

161 ***Metabolism***

162 Albendazole rapidly undergoes extensive first-pass metabolism in the liver, and is
163 generally not detected in plasma.

164 ***Elimination***

165 The plasma half-life of albendazole sulphoxide is 8 ½ h.

166 ***Special Patient Populations***

167 **Elderly**

168 No specific studies have investigated the effect of age on albendazole sulphoxide
169 pharmacokinetics.

170 **Renal Impairment**

171 The pharmacokinetics of albendazole in patients with impaired renal function has not
172 been studied.

173 **Hepatic Impairment**

174 The pharmacokinetics of albendazole in patients with impaired hepatic function has
175 not been studied.

176 **Clinical Studies**

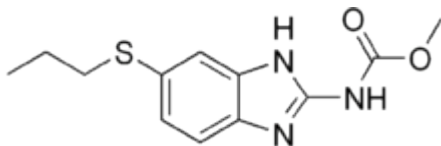
177 *No Text*

178 **NON-CLINICAL INFORMATION**

179 Albendazole has been shown to be teratogenic and embryotoxic in rats and rabbits.
180 Albendazole was negative for evidence of mutagenicity or genotoxicity in a panel of
181 *in vitro* (including Ames inactivated and activated) and *in vivo* tests. In long term
182 toxicity studies conducted in rats and mice at daily doses of up to 30 times the
183 recommended human doses, no treatment-related tumour formation was seen.

184 **PHARMACEUTICAL INFORMATION**

185 **Chemical Structure**



186

187 **Shelf-Life**

188 ***Tablets:***

189 5 years at 25°C

190 ***Suspensions:***

191 *2% Suspension (400 mg/20 ml)*

192 4 years at 25°C

193 3 years at 30°C

194 *4% Suspension (400 mg/10 ml)*

195 3 years at 25°C

196 2 years at 30°C

197 **Storage**

198 ***Suspensions:***

199 Protect from direct sunlight.

200 **Nature and Content of Container**

201 ***Tablets:***

202 Blister packs.

203 Polypropylene containers and cap.

204 ***Suspensions:***

205 Glass/plastic bottle with aluminium cap.

206 **Incompatibilities**

207 Not relevant.

208 **Use and Handling**

209 Shake well before use.

210

GLOBAL CONSUMER INFORMATION

Section and Line reference in GTI	Consumer information
Indications, lines 23-38	For treatment of common worm infections of the gut (pinworm, roundworm, hookworm and whipworm). This medicine may also be used to treat other types of worm infections but only after medical advice.
Dosage and Administration, lines, 39-54	Adults and children over 2-years of age 400mg as a single dose. Children 1-2 years of age 200mg as a single dose. Do not exceed maximum single daily recommended dose for adults and children over 2-years (of 400mg) or children 1-2-years (200mg). If you still experience symptoms after taking a single dose, please seek medical advice for further treatment. Some people, particularly young children, may experience problems swallowing the tablets whole. Tablets can be split, chewed with a little water or crushed.
Contraindications, lines, 74-77	Do not use if you are pregnant. Do not use if you are allergic to albendazole or any other ingredients.
Warnings & Precautions, lines, 78-81	Women of childbearing age should begin treatment during the first 10 days of starting their period, or immediately after a negative pregnancy test, in order to avoid taking this medicine during early pregnancy.
Warnings & Precautions, lines, 82-88	If you develop severe headache, nausea and vomiting, fits and/or problems with your vision after taking this medicine, consult a Healthcare Professional immediately.
Warnings &	This medicine may cause liver problems. Please consult a

Precautions, lines, 89-96	<p>Healthcare Professional if you experience yellowing of the skin or eyes.</p> <p>If you have been diagnosed with liver or kidney problems, seek advice from a Healthcare Professional before taking this medicine.</p>
Warnings & Precautions, line, 97	<p>Keep out of the sight and reach of children.</p>
Warnings & Precautions [Suspension only], lines, 98-99	<p>Avoid contact with the skin, eyes, mouth or nose, as albendazole suspension may cause irritation.</p>
Lactation, lines, 108-113	<p>If you are breast feeding, please seek advice from a Healthcare Professional before using this medicine.</p>
Adverse reactions, lines, 116-138	<p>Uncommon side effects (up to 1 in 100 people) are headache, dizziness, stomach pain, nausea, vomiting and diarrhoea.</p> <p>Rare side effects (up to 1 in 1000 people) are changes in liver blood test. Please consult a Healthcare Professional if you experience yellowing of the skin or eyes.</p> <p>Very rare side effects (up to 1 in 10,000 people) are serious blistering skin rashes with swelling and peeling. Please contact a Healthcare Professional if you notice any of these symptoms.</p>
Overdose, lines, 139-144	<p>Please consult a Healthcare Professional for advice in the event of overdose.</p>