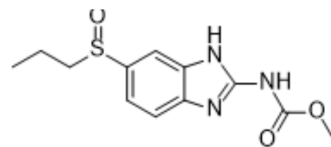


Albendazole sulfoxide

Cat. No.:	HY-12785		
CAS No.:	54029-12-8		
Molecular Formula:	C ₁₂ H ₁₅ N ₃ O ₃ S		
Molecular Weight:	281.33		
Target:	Parasite		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (88.86 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.5545 mL	17.7727 mL	35.5454 mL
		5 mM	0.7109 mL	3.5545 mL	7.1091 mL
10 mM		0.3555 mL	1.7773 mL	3.5545 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.39 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.39 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.39 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Albendazole sulfoxide (Ricobendazole), the main active metabolite of Albendazole, exhibits anti-parasite effect against <i>Echinococcus multilocularis</i> Metacestodes ^[1] .
In Vitro	Albendazole sulfoxide (10 µg/mL, 3-16 days) shows parasitocidal effect against <i>E. multilocularis</i> metacestodes ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Albendazole sulfoxide (0.5 mg/kg, i.m., BID, 15 days) reduces cyst size and weight in Balb/c mice infected with protoscolexes

[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Acta Trop. 2020 Dec;212:105708.

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REFERENCES

- [1]. Ingold K, et al. Efficacies of albendazole sulfoxide and albendazole sulfone against In vitro-cultivated Echinococcus multilocularis metacestodes. Antimicrob Agents Chemother. 1999 May;43(5):1052-61.
- [2]. Ahmadnia S, et al. In vivo evaluation of the efficacy of albendazole sulfoxide and albendazole sulfoxide loaded solid lipid nanoparticles against hydatid cyst. Exp Parasitol. 2013 Oct;135(2):314-9.
- [3]. Gokhan Adas,, et al. Use of albendazole sulfoxide, albendazole sulfone, and combined solutions as scolicial agents on hydatid cysts (in vitro study).
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA