

Luxabendazole

Chemical Properties

CAS No.:	90509-02-7
Formula:	C ₁₅ H ₁₂ FN ₃ O ₅ S
Molecular Weight:	365.34
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Luxabendazole is a benzimidazole carbamate broad-spectrum anthelmintic agent. It has proved to be effective against immature and adult stages of the major gastrointestinal nematodes, cestodes, and trematodes.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.737 mL	13.686 mL	27.372 mL
5 mM	0.547 mL	2.737 mL	5.474 mL
10 mM	0.274 mL	1.369 mL	2.737 mL
50 mM	0.055 mL	0.274 mL	0.547 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Criado-Fornelio A, de Armas-Serra C, Jimenez-Gonzalez A, Casado-Escribano N, Rodriguez-Caabeiro F. Biochemical effects of luxabendazole on *Trichinella spiralis*. *Parasitol Res.* 1990;76(6):518-20. PubMed PMID: 2381894.
2. Kassai T, Takáts C, Fok E, Redl P. Activity of luxabendazole against liver flukes, gastrointestinal roundworms, and lungworms in naturally infected sheep. *Parasitol Res.* 1988;75(1):14-8. PubMed PMID: 2974592.
3. Ortiz AI, Alvarez-Bujidos L, Ferre I, Ordóñez D. Pharmacokinetics of luxabendazole after oral and intravenous administration to sheep. *Am J Vet Res.* 1997 Nov;58(11):1263-6. PubMed PMID: 9361890.
4. Alvarez-Bujidos ML, Ortiz A, Balaña R, Cubría JC, Ordoñez D, Negro A. Determination of luxabendazole in biological fluids by high-performance liquid chromatography. *J Chromatogr.* 1992 Jul 24;578(2):321-6. PubMed PMID: 1400814.

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