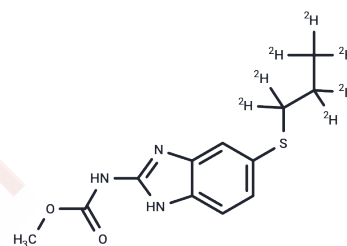


Albendazole-D7

Chemical Properties

CAS No. :	1287076-43-0
Formula:	C ₁₂ H ₈ D ₇ N ₃ O ₂ S
Molecular Weight:	272.38
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Albendazole-D7 is intended for use as an internal standard for the quantification of albendazole by GC- or LC-MS. Albendazole (T1152) is an orally bioavailable benzimidazole anthelmintic that is active against a variety of helminths, including liver flukes, tapeworms, and roundworms. It eliminates Trichostrongylus in the fourth stomach of cattle and sheep when orally administered at doses ranging from 2.5 to 10 mg/kg as well as other species in the fourth stomach and the small and large intestine. Albendazole (T1152) (0.05% in the diet) protects mice against lethal infection with A. suum larvae. It also inhibits growth of HT-29 human colorectal cancer cells (IC ₅₀ = 0.12 μM), halts the cell cycle at the G ₂ /M phase, and induces apoptosis. In an HT-29 mouse xenograft model, it inhibits peritoneal tumor growth when administered intraperitoneally at a dose of 150 mg/kg but not when administered orally. Albendazole (T1152) inhibits mammalian tubulin polymerization and inhibits binding of [3H] mebendazole t.....
Targets(IC ₅₀)	Antibiotic,Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6713 mL	18.3567 mL	36.7134 mL
5 mM	0.7343 mL	3.6713 mL	7.3427 mL
10 mM	0.3671 mL	1.8357 mL	3.6713 mL
50 mM	0.0734 mL	0.3671 mL	0.7343 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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