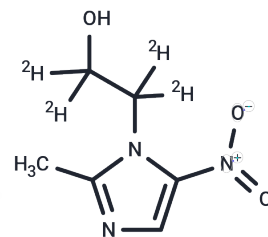


Metronidazole-D4

Chemical Properties

CAS No. :	1261392-47-5
Formula:	C ₆ H ₉ N ₃ O ₃
Molecular Weight:	175.18
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Metronidazole-D4 is a deuterium labeled compound for Metronidazole (TMSM-1638), which can be used for isotopic tracing. Metronidazole is a synthetic nitroimidazole derivative, an antibiotic and antiprotozoal agent with oral activity and blood-brain-barrier penetration for infections caused by anaerobic bacteria.
Targets(IC50)	Apoptosis, Antibacterial, Antibiotic, Parasite, Hydrogenase

Solubility Information

Solubility	Ethanol: 4 mg/mL (22.83 mM), Sonication is recommended. DMF: 10 mg/mL (57.08 mM), Sonication is recommended. DMSO: 10 mg/mL (57.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.7084 mL	28.5421 mL	57.0841 mL
5 mM	1.1417 mL	5.7084 mL	11.4168 mL
10 mM	0.5708 mL	2.8542 mL	5.7084 mL
50 mM	0.1142 mL	0.5708 mL	1.1417 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.

Reference

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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