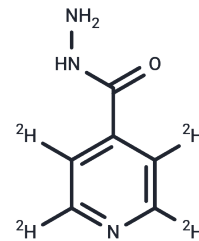


Isoniazid-D4

Chemical Properties

CAS No. :	774596-24-6
Formula:	C ₆ H ₃ D ₄ N ₃ O
Molecular Weight:	141.16
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	Isoniazid-D4 is a deuterium isotope marker for Isoniazid (TMSM-1385), which can be used for isotope tracing and drug metabolism studies. Isoniazid is a prodrug that must be activated by the bacterial peroxidase KatG, and is bactericidal against rapidly dividing Mycobacterium species.
Targets(IC50)	Mitophagy, Antibacterial, Antibiotic, Autophagy

Solubility Information

Solubility	H ₂ O: 30 mg/mL (212.52 mM), Sonication is recommended. DMSO: 40 mg/mL (283.37 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	7.0842 mL	35.4208 mL	70.8416 mL
5 mM	1.4168 mL	7.0842 mL	14.1683 mL
10 mM	0.7084 mL	3.5421 mL	7.0842 mL
50 mM	0.1417 mL	0.7084 mL	1.4168 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;53(2):211-216.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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