

Linezolid-D3

Chemical Properties

CAS No. :	1127120-38-0
Formula:	C ₁₆ H ₂₀ FN ₃ O ₄
Molecular Weight:	340.37
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	Linezolid-D3 is a deuterated analogue of linezolid (T0391) and can be used for isotope tracing. Linezolid is a synthetic antibiotic that acts by inhibiting the initiation of bacterial protein synthesis. Linezolid-D3 can be used in antimicrobial pharmacokinetic and tracer-based biochemical studies to investigate the mechanisms of protein synthesis inhibition and to track the distribution of the antibiotic in bacterial translation models.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 16 mg/mL (47.01 mM),Sonication is recommended. DMF: 8 mg/mL (23.5 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	2.938 mL	14.6899 mL	29.3798 mL
5 mM	0.5876 mL	2.938 mL	5.876 mL
10 mM	0.2938 mL	1.469 mL	2.938 mL
50 mM	0.0588 mL	0.2938 mL	0.5876 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

Perry CM, Jarvis B. Linezolid: a review of its use in the management of serious gram-positive infections. *Drugs*. 2001;61(4):525-51.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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