

Erythromycin-13C-D3

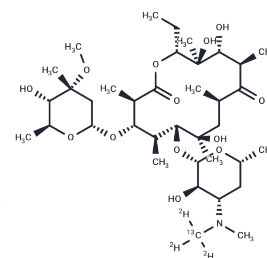
Chemical Properties

CAS No. : 2378755-50-9

Formula: 13C C₃₇H₆₄D₃N₀O₁₃

Molecular Weight: 737.94

Storage: Store at low temperature, Keep away from direct sunlight, Keep away from moisture
 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	Erythromycin-13C-D3 is a 13C- and deuterated erythromycin that can be used to study the metabolic pathways of erythromycin in vivo.
Targets(IC50)	Antibacterial, Antibiotic

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3551 mL	6.7756 mL	13.5512 mL
5 mM	0.271 mL	1.3551 mL	2.7102 mL
10 mM	0.1355 mL	0.6776 mL	1.3551 mL
50 mM	0.0271 mL	0.1355 mL	0.271 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.

Nakornchai S, et al. Activity of azithromycin or erythromycin in combination with antimalarial drugs against multidrug-resistant Plasmodium falciparum in vitro. Acta Trop. 2006 Dec;100(3):185-91.

Hamada K, et al. Antitumor effect of erythromycin in mice. Chemotherapy. 1995 Jan-Feb;41(1):59-69.

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