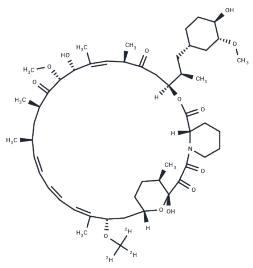
Data Sheet (Cat.No.T12691)

TargetMol

Rapamycin-D3

Chemical Properties



CAS No. : 392711-19-2

Formula: C51H79NO13

Molecular Weight: 917.19

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	Rapamycin-D3 is the deuterium labeled Rapamycin. Rapamycin (T1537) is a potent and specific inhibitor of mTOR (IC50 of 0.1 nM in HEK293 cells).
Targets(IC50)	Autophagy,FKBP,mTOR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0903 mL	5.4514 mL	10.9029 mL
5 mM	0.2181 mL	1.0903 mL	2.1806 mL
10 mM	0.109 mL	0.5451 mL	1.0903 mL
50 mM	0.0218 mL	0.109 mL	0.2181 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

Edwards SR, et al. The rapamycin-binding domain of the protein kinase mammalian target of rapamycin is a destabilizing domain. J Biol Chem, 2007, 282(18), 13395-13401.
Rangaraju S, et al. Rapamycin activates autophagy and improves myelination in explant cultures from neuropathicmice. J Neurosci. 2010 Aug 25;30(34):11388-97.

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