

Rifampicin-D8

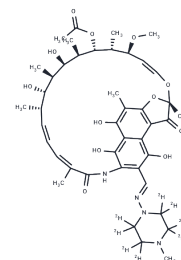
Chemical Properties

CAS No. :

Formula: C43H58N4O12

Molecular Weight: 830.99

Storage: Store at low temperature
 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	Rifampicin-D8 is a deuterium-labelled compound of rifampicin, which can be used for isotope tracing. Rifampicin (T0681) is a broad-spectrum antibiotic that primarily exerts its antibacterial activity by inhibiting bacterial DNA-dependent RNA polymerase.
Targets(IC50)	Anti-infection,Antibacterial,Antibiotic,Influenza Virus

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2034 mL	6.0169 mL	12.0338 mL
5 mM	0.2407 mL	1.2034 mL	2.4068 mL
10 mM	0.1203 mL	0.6017 mL	1.2034 mL
50 mM	0.0241 mL	0.1203 mL	0.2407 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.

Piriou A, et al. Fatty liver induced by high doses of rifampicin in the rat: possible relation with an inhibition of RNA polymerases in eukariotic cells. *Arch Toxicol Suppl.* 1979;(2):333-7.

Yu J, et al. Monitoring in vivo fitness of rifampicin-resistant *Staphylococcus aureus* mutants in a mouse biofilm infection model. *J Antimicrob Chemother.* 2005 Apr;55(4):528-34. Epub 2005 Mar 2.

Erokhina MV, et al. [In vitro development of rifampicin resistance in the epithelial cells]. *Probl Tuberk Bolezn Legk.* 2006;(8):58-61.

Hamzehei M, et al. Inhibition of influenza A virus replication by rifampicin and selenocystamine. *J Med Virol.* 1980; 6(2):169-74.

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