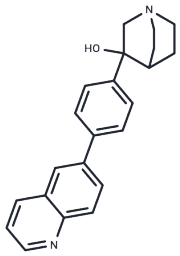
Data Sheet (Cat.No.T12765)

TargetMol

RPR107393 free base

Chemical Properties



CAS No. : 197576-78-6

Formula: C22H22N2O

Molecular Weight: 330.42

Storage: 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	RPR107393 free base is a selective and potent inhibitor of squalene synthase (SQS) for the study of neurological disorders and endocrine and metabolic disorders.
Targets(IC50)	Others,Transferase
In vitro	RPR107393 free base is a highly selective squalene synthase inhibitor with sub-nanomolar activity. It inhibits rat liver microsomal squalene synthase with an IC50 value of 0.8 nM, and at a concentration of 1 μM, RPR107393 free base significantly inhibited cholesterol and triglyceride synthesis by 82.4% and 70.0%, respectively. [1][2]
In vivo	One hour after oral administration of 10 mg/kg of RPR107393 free base, cholesterol synthesis was reduced by 92% with an ED50 value of approximately 5 mg/kg. Six hours later, cholesterol synthesis was reduced by 74% with the same dose of RPR107393 free base administered orally (time to 50% inhibition was approximately 7 hours). Hepatic cholesterol synthesis was inhibited by 82% after 10 hours of oral administration of 25 mg/kg RPR107393 free base, but the effect disappeared after 21 hours. RPR107393 free base exhibited significant cholesterol-lowering effects in rats. Oral administration of RPR107393 free base 30 mg/kg twice daily reduced serum cholesterol by 35% after 2 days and nearly 50% after 3 days of treatment. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0265 mL	15.1323 mL	30.2645 mL
5 mM	0.6053 mL	3.0265 mL	6.0529 mL
10 mM	0.3026 mL	1.5132 mL	3.0265 mL
50 mM	0.0605 mL	0.3026 mL	0.6053 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

Amin D, et al. RPR 107393, a potent squalene synthase inhibitor and orally effective cholesterol-lowering agent: comparison with inhibitors of HMG-CoA reductase. J Pharmacol Exp Ther. 1997 May;281(2):746-52.
Hiyoshi H, et al. Squalene synthase inhibitors suppress triglyceride biosynthesis through the farnesol pathway in rat hepatocytes. J Lipid Res. 2003 Jan;44(1):128-35.

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