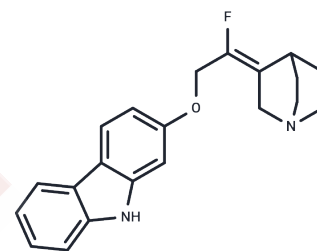


YM-53601 free base

Chemical Properties

CAS No. :	182959-28-0
Formula:	C ₂₁ H ₂₁ FN ₂ O
Molecular Weight:	336.4
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	YM-53601 free base is an inhibitor of squalene synthetase which suppresses lipogenic biosynthesis and lipid secretion in rodents.
Targets(IC50)	HCV Protease, AMPK, Transferase
In vivo	In the plasma of rats, YM-53601 inhibits cholesterol biosynthesis from acetate in a dose-dependent manner. YM-53601 inhibits both FFA and triglyceride biosynthesis in rats treated with cholestyramine over the same dose range at which it inhibits cholesterol biosynthesis. Through a single oral administration, YM-53601 reduces the increase in plasma triglyceride levels of hamsters induced by protamine sulfate injection, thereby inhibiting lipoprotein lipase (LPL), thereby increasing plasma very low density lipoprotein (VLDL) Triglyceride levels. YM-53601 can also reduce plasma triglyceride and cholesterol levels in hamsters treated with Triton WR1339, which also inhibits the degradation of VLDL. Plasma cholesterol was significantly decreased as soon as 1 h after single administration of YM-53601 in hamsters fed a normal diet.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9727 mL	14.8633 mL	29.7265 mL
5 mM	0.5945 mL	2.9727 mL	5.9453 mL
10 mM	0.2973 mL	1.4863 mL	2.9727 mL
50 mM	0.0595 mL	0.2973 mL	0.5945 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

Ugawa T, et al. YM-53601, a novel squalene synthase inhibitor, suppresses lipogenic biosynthesis and lipid secretion in rodents. Br J Pharmacol. 2003 May;139(1):140-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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