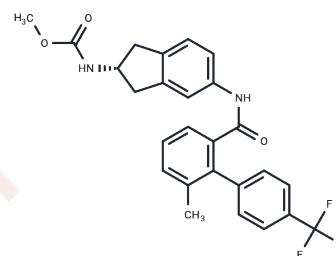


LAB687

Chemical Properties

CAS No. : 256397-11-2
 Formula: C₂₆H₂₃F₃N₂O₃
 Molecular Weight: 468.47
 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	LAB687 (Compound 2a) is an inhibitor of microsomal triglyceride transfer protein (MTP) with an IC ₅₀ of 0.9 nM for inhibiting the secretion of apolipoprotein B (apoB) in HepG2 cells. Additionally, LAB687 acts as a Smoothened (Smo) antagonist, exhibiting IC ₅₀ values of 2.48 μM and 3.42 μM for mouse and human Smo receptors, respectively. This compound is effective in reducing triglyceride and low-density lipoprotein cholesterol (LDL-C) levels and in inhibiting the Hedgehog signaling pathway.
Targets(IC ₅₀)	Hedgehog/Smoothened,MTP,Smo

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1346 mL	10.673 mL	21.3461 mL
5 mM	0.4269 mL	2.1346 mL	4.2692 mL
10 mM	0.2135 mL	1.0673 mL	2.1346 mL
50 mM	0.0427 mL	0.2135 mL	0.4269 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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