

DM-4107

Chemical Properties

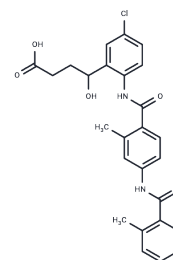
CAS No. : 1346599-75-4

Formula: C₂₆H₂₅ClN₂O₅

Molecular Weight: 480.94

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	DM-4107 is a primary metabolite of Tolvaptan, primarily metabolized by the CYP3A4 enzyme in the liver. In SCHH cells, DM-4107 inhibits the human liver transport proteins NTCP, BSEP, MRP3, and MRP4, with IC ₅₀ values of 95.6, 119, 61.2, and 37.9 μM respectively, affecting bile acid transport. It is applicable for research on autosomal dominant polycystic kidney disease (ADPKD).
Targets(IC ₅₀)	P-gp

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0793 mL	10.3963 mL	20.7926 mL
5 mM	0.4159 mL	2.0793 mL	4.1585 mL
10 mM	0.2079 mL	1.0396 mL	2.0793 mL
50 mM	0.0416 mL	0.2079 mL	0.4159 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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