

(R)-STU104-D6

Chemical Properties

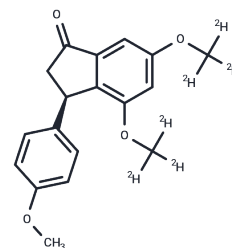
CAS No. : 3063042-81-6

Formula: C₁₈H₁₈D₆O₄

Molecular Weight: 304.37

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	(R)-STU104-D6 is a deuterium-labeled variant of (R)-STU104 (T60657). This compound acts as a potent and orally active inhibitor of the interaction between TAK1 and MKK3 proteins, exhibiting IC ₅₀ values of 0.58 μM for TNF-α and 4.0 μM for MKK3 phosphorylation. By binding to MKK3, (R)-STU104 hinders TAK1's ability to phosphorylate MKK3, thereby disrupting the TAK1/MKK3/p38/Mnk1/MK2/eIF4E signaling pathway. It is utilized in research related to ulcerative colitis.
Targets(IC ₅₀)	p38 MAPK

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2855 mL	16.4274 mL	32.8547 mL
5 mM	0.6571 mL	3.2855 mL	6.5709 mL
10 mM	0.3285 mL	1.6427 mL	3.2855 mL
50 mM	0.0657 mL	0.3285 mL	0.6571 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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