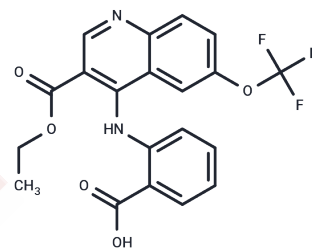


BCH001

Chemical Properties

CAS No. : 384859-58-9
 Formula: C₂₀H₁₅F₃N₂O₅
 Molecular Weight: 420.34
 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	BCH001 is a specific small-molecule inhibitor of PAPD5.
Targets(IC50)	DNA/RNA Synthesis
In vivo	BCH001, a specific PAPD5 inhibitor that restored telomerase activity and telomere length in DC patient induced pluripotent stem cells. When human blood stem cells engineered to carry DC-causing PARN mutations were xenotransplanted into immunodeficient mice, oral treatment with a repurposed PAPD5 inhibitor, the dihydroquinolizinone RG7834, rescued TERC 3' end maturation and telomere length.

Solubility Information

Solubility	DMSO: 84 mg/mL (199.84 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.379 mL	11.8951 mL	23.7903 mL
5 mM	0.4758 mL	2.379 mL	4.7581 mL
10 mM	0.2379 mL	1.1895 mL	2.379 mL
50 mM	0.0476 mL	0.2379 mL	0.4758 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

Nagpal N , Wang J , Zeng J , et al. Small-Molecule PAPD5 Inhibitors Restore Telomerase Activity in Patient Stem Cells[J]. Cell stem cell, 2020.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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