

CDD-2789

Chemical Properties

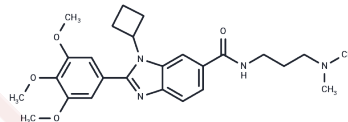
CAS No. : 3052084-77-9

Formula: C₂₆H₃₄N₄O₄

Molecular Weight: 466.573

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	CDD-2789 is a highly selective small molecule inhibitor that targets Activin receptor type 1 (ALK2, also known as ACVR1). It effectively blocks the BMP and activin A-induced downstream phosphorylation reactions by inhibiting the ALK2/ALK1-mediated SMAD1/5 signaling pathway. In the NanoBRET cell model, CDD-2789 demonstrates an inhibitory activity with an IC ₅₀ value of 0.54 μM for ALK2. This compound holds potential for research in ALK2-related diseases, including brainstem glioma (DIPG), ependymoma, endometrial cancer, melanoma, non-small cell lung cancer, colorectal cancer, and pancreatic cancer.
Targets(IC ₅₀)	ALK,TGF-beta/Smad

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1433 mL	10.7165 mL	21.433 mL
5 mM	0.4287 mL	2.1433 mL	4.2866 mL
10 mM	0.2143 mL	1.0717 mL	2.1433 mL
50 mM	0.0429 mL	0.2143 mL	0.4287 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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