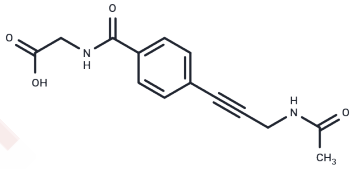
Data Sheet (Cat.No.T85537)

TargetMol

AACA

Chemical Properties



CAS No. : 2515609-54-6

Formula: C14H14N2O4

Molecular Weight: 274.27

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	AACA, an inhibitor for sclerostin, binds to the loop3 region of sclerostin with a Kd of 15.4 nM. AACA exhibits anti-osteoporosis activity through the Wnt signaling pathway [1].
Targets(IC50)	Wnt/beta-catenin
In vitro	AACA (10 μM, 12 h) activates the Wnt signaling pathway inhibited by osteocalcin, leading to increased expression of bone formation markers [1]. In the cell line MC3T3-E1, with a concentration of 10 μM and an incubation time of 12 hours, there is an upregulation of mRNA levels for bone formation markers ALP and OCN, as shown by Real Time qPCR [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.646 mL	18.2302 mL	36.4604 mL
5 mM	0.7292 mL	3.646 mL	7.2921 mL
10 mM	0.3646 mL	1.823 mL	3.646 mL
50 mM	0.0729 mL	0.3646 mL	0.7292 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.

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