

β -Glucuronidase-IN-3

Chemical Properties

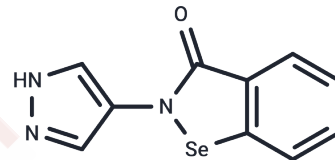
CAS No. : 3081681-34-4

Formula: C₁₀H₇N₃OSe

Molecular Weight: 264.14

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	β -Glucuronidase-IN-3 (Compound 49) is a covalent allosteric inhibitor targeting β -glucuronidase. It exhibits potent inhibitory activity against Escherichia coli β -glucuronidase (EcGUS) with an IC ₅₀ of 12.9 nM. The compound exerts its inhibitory effect through reversible covalent modification of cysteine residues (Cys28, Cys443, and Cys197) on EcGUS. It is applicable in research on gut microbiota-related diseases, particularly in reducing the toxic side effects of Irinotecan and non-steroidal anti-inflammatory drugs (NSAIDs).
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7859 mL	18.9294 mL	37.8587 mL
5 mM	0.7572 mL	3.7859 mL	7.5717 mL
10 mM	0.3786 mL	1.8929 mL	3.7859 mL
50 mM	0.0757 mL	0.3786 mL	0.7572 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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