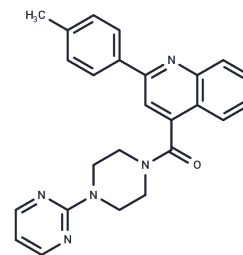


lucPpy-IN-1

Chemical Properties

CAS No. :	546100-66-7
Formula:	C ₂₅ H ₂₃ N ₅ O
Molecular Weight:	409.48
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	lucPpy-IN-1 (compound 9) is a potent inhibitor of the ATP-dependent luciferase from Photinus pyralis (lucPpy) with an IC ₅₀ value of 4.0 μM. Luciferase enzymes are widely utilized in bioluminescence-based reporter gene assays and high-throughput screening (HTS). lucPpy-IN-1 is primarily used to investigate the inhibitory effects of chemical libraries on firefly luciferase and to assist in assessing the druggability of targets, helping to identify and mitigate false-positive signals in HTS assays.
Targets(IC ₅₀)	Others
In vitro	lucPpy-IN-1 effectively inhibits lucPpy activity (IC ₅₀ = 4.0 μM), assisting in false positive identification in libraries [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (244.21 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	2.4421 mL	12.2106 mL	24.4212 mL
5 mM	0.4884 mL	2.4421 mL	4.8842 mL
10 mM	0.2442 mL	1.2211 mL	2.4421 mL
50 mM	0.0488 mL	0.2442 mL	0.4884 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

Zheng J, et al. Conversion of Quinazoline Modulators from Inhibitors to Activators of β -Glucocerebrosidase. J Med Chem. 2019 Feb 14;62(3):1218-1230.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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