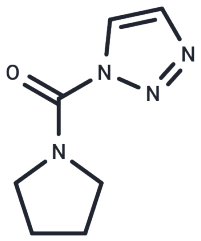
Data Sheet (Cat.No.T3990)

TargetMol

AA26-9

Chemical Properties



CAS No. : 1312782-34-5

Formula: C7H10N4O

Molecular Weight: 166.18

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	AA26-9 is an effective and broad-spectrum inhibitor of serine hydrolase.
Targets(IC50)	Phospholipase,Serine Protease
In vitro	AA26-9 inhibits enzymes originated from diverse functional subclasses of serine hydrolases, including peptidases (APEH, CTSA, PRCP), thioesterases (LYPLA1/2), lipases/phospholipases (AADACL1, ESD, ABHD6, PAFAH2, FAAH, LYPLA3), and uncharacterized enzymes (ABHD11, ABHD13, BAT5). AA26-9 inhibits 1/3 of the over 40 serine hydrolase found in T-cells.
Cell Research	AA26-9 is prepared in DMSO. Cells are cultured with 20 μM inhibitor AA26-9 or DMSO as a control for 4 h, lysed, separated into soluble and analyzed by competitive gel-based ABPP[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (330.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (12.04 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0176 mL	30.0879 mL	60.1757 mL
5 mM	1.2035 mL	6.0176 mL	12.0351 mL
10 mM	0.6018 mL	3.0088 mL	6.0176 mL
50 mM	0.1204 mL	0.6018 mL	1.2035 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

Adibekian A, et al. Click-generated triazole ureas as ultrapotent in vivo-active serine hydrolase inhibitors. Nat Chem Biol. 2011 May 15;7(7):469-78.