AA26-9

Cat. No.:	HY-18522			
CAS No.:	1312782-34-5			
Molecular Formula:	C ₇ H ₁₀ N ₄ O			
Molecular Weight:	166.18			
Target:	Phospholipase			
Pathway:	Metabolic Enzyme/Protease			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

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SOLVENT & SOLUBILITY

In Vitro	H ₂ O : ≥ 100 mg/mL (601.76 mM) DMSO : 100 mg/mL (601.76 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		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			
	Please refer to the so	ubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution						

Product Data Sheet

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	nitrophenoxy carbamate. AA26-9-inhibited enzymes originated from diverse functional subclasses of serine hydrolases, including lipases/phospholipases (AADACL1, ABHD6, ESD, FAAH, PAFAH2, LYPLA3), peptidases (APEH, PRCP, CTSA), thioesterases (LYPLA1, LYPLA2), and uncharacterized enzymes (ABHD11, ABHD13, BAT5). AA26-9 inhibits one of its enzyme targets LYPLA1 by covalent carbamoylation of the enzyme's serine nucleophile (S114). AA26-9 inhibits 1/3 of the over 40 serine hydrolase found in T-cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
PROTOCOL	
Cell Assay ^[1]	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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

[2]. Borne AL, et al. Deciphering T Cell Immunometabolism with Activity-Based Protein Profiling. Curr Top Microbiol Immunol. 2019;420:175-210.

Caution: Product has not been fully validated for medical applications. For research use only.

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