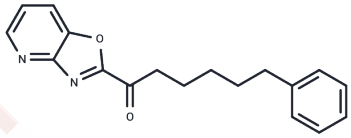
Data Sheet (Cat.No.T84547)

TargetMol

PHOP

Chemical Properties



CAS No. : 288862-83-9

Formula: C18H18N2O2

Molecular Weight: 294.354

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	Fatty acid amide hydrolase (FAAH), an enzyme responsible for the hydrolysis and inactivation of fatty acid amides like anandamide and oleamide, has been identified as a target by the potent FAAH inhibitor PHOP. PHOP demonstrates remarkable inhibitory activity with K_i values as low as 0.094 nM for human FAAH and 0.2 nM for rat FAAH. Additionally, through a proteomics assay focusing on the serine hydrolase enzyme family, to which FAAH belongs, PHOP's selectivity was evaluated, presenting IC_50 values of 1.1 nM against FAAH, 1.4 nM against triacylglycerol hydrolase (TGH), and greater than 100 μM against an uncharacterized hydrolase (KIAA1363). This specificity profile of PHOP underscores its potential for yielding precise outcomes in studies involving complex biological systems.
Targets(IC50)	Others,FAAH

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3973 mL	16.9866 mL	33.9732 mL
5 mM	0.6795 mL	3.3973 mL	6.7946 mL
10 mM	0.3397 mL	1.6987 mL	3.3973 mL
50 mM	0.0679 mL	0.3397 mL	0.6795 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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