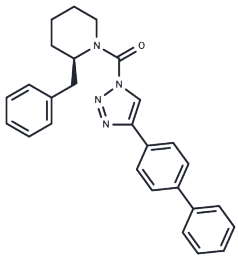
Data Sheet (Cat.No.T38031)

TargetMol

(R)-KT109

Chemical Properties



CAS No. : 2055172-60-4

Formula: C27H26N4O

Molecular Weight: 422.52

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	(R)-KT109 is the (R) isomer of the diacylglycerol lipase β (DAGLβ) inhibitor KT109 . (R)-KT109 is an inhibitor of DAGLβ (IC50 = 0.79 nM) and of DAGLα-mediated hydrolysis of 1-stearoyl-2-arachidonoyl-sn-glycerol . It also inhibits α/β-hydrolase domain-containing protein 6 (ABHD6) with an IC50 value of 2.51 nM. (R)-KT109 is more potent at DAGLβ, DAGLα, and ABHD6 than (S)-KT109 .
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 10 mg/mL (23.67 mM),Sonication is recommended. DMSO: 10 mg/mL (23.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3668 mL	11.8338 mL	23.6675 mL
5 mM	0.4734 mL	2.3668 mL	4.7335 mL
10 mM	0.2367 mL	1.1834 mL	2.3668 mL
50 mM	0.0473 mL	0.2367 mL	0.4734 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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