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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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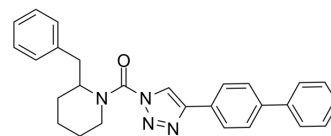
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KT109

Cat. No.:	HY-18540
CAS No.:	1402612-55-8
Molecular Formula:	C ₂₇ H ₂₆ N ₄ O
Molecular Weight:	422.52
Target:	MAGL
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (236.68 mM; ultrasonic and warming and heat to 80°C)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		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		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: 2.5 mg/mL (5.92 mM); Clear solution; Need ultrasonic and warming and heat to 80°C					

BIOLOGICAL ACTIVITY

Description	KT109 is a potent and an isoform-selective inhibitor of diacylglycerol lipase-β (DAGLβ) with an IC₅₀ of 42 nM. KT109 has ~60-fold selectivity for DAGLβ over DAGLα. KT109 shows inhibitory activity against PLA2G7 (IC₅₀=1 μM). KT109 shows negligible activity against FAAH, MGLL, ABHD11, and cytosolic phospholipase A2 (cPLA2 or PLA2G4A). KT109 perturbs a lipid network involved in macrophage inflammatory responses and lowers 2-arachidonoylglycerol (2-AG), arachidonic acid and eicosanoids in mouse peritoneal macrophages^[1].
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REFERENCES

[1]. Ku-Lung Hsu, et al. DAGLβ inhibition perturbs a lipid network involved in macrophage inflammatory responses. Nat Chem Biol. 2012 Dec;8(12):999-1007.

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

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