KT109

MedChemExpress

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

Preparing Stock Solutions	Solvent Mass Concentration	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.					

BIOLOGICAL ACTIV	YITY
Description	KT109 is a potent and an isoform-selective inhibitor of diacylglycerol lipase-β (DAGLβ) with an IC ₅₀ of 42 nM. KT109 has ~60- fold selectivity for DAGLβ over DAGLα. KT109 shows inhibitory activity against PLA2G7 (IC ₅₀ =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] .

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.

Product Data Sheet

N∼N N=N

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

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