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Data Sheet

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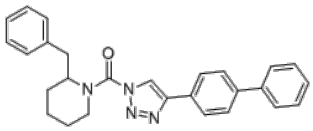

Product Name	:	KT-109
Cat. No.	:	PC-61838
CAS No.	:	1402612-55-8
Molecular Formula	:	$C_{27}H_{26}N_4O$
Molecular Weight	:	422.5
Target	:	Diacylglycerol Lipase (DAGL)
Solubility	:	10 mM in DMSO

Biological Activity

KT-109 (KT109) is a potent, selective inhibitor of **DAGLβ** with IC50 of 42 nM, displays about 60-fold selectivity over DAGLα.
KT-109 shows negligible activity against other key enzymes involved in endocannabinoid signaling, including FAAH, MAGL and ABHD11.
KT-109 disrupts the lipid network involved in macrophage inflammatory responses, lowering 2-AG, as well as arachidonic acid and eicosanoids in mouse peritoneal macrophages.
KT-109 reverses nociceptive behaviour in mouse models of inflammatory and neuropathic pain; possesses one remaining off-target ABHD6 (IC50=16 nM).

References

Hsu KL, et al. ***Nat Chem Biol.*** 2012 Dec;8(12):999-1007.

Wilkerson JL, et al. ***Br J Pharmacol.*** 2016 May;173(10):1678-92.

Shin M, et al. ***Mol Pharm***. 2017 Sep 13. doi: 10.1021/acs.molpharmaceut.7b00657.

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