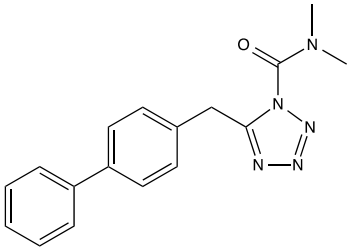
Catalog # 10-2636
LY-2183240

CAS# 874902-19-9

5-([1,1'-Biphenyl]-4-ylmethyl)-N,N,-dimethyl-1H-tetrazole-1-carboxamide

Lot # FBS1036



LY2183240 is highly potent inhibitor of cellular anandamide uptake (IC_{50} = 0.27nM[1], 15nM[2]). LY2183241 has also been found[2,3,4] to be an inhibitor of fatty acid amide hydrolase (FAAH) – IC_{50} = 14nM[4], diacylglycerol lipase (DAGL) and monoacylglycerol lipase (MAGL) – IC_{50} = 5.3 nM[3].

1) Moore *et al*., (2005), *Identification of a high-affinity binding site involved in the transport of endocannabinoids*; Proc.Natl.Acad.Sci.USA **102** 17852
2) Ortar *et al*. (2008), *Carbamoyl tetrazoles as inhibitors of endocannabinoid inactivation: A critical revision*; Eur.J.Med.Chem. **43** 62
3) Alexander and Cravatt (2006), *The putative endocannabinoid transport blocker LY2183240 is a potent inhibitor of FAAH and several other brain serine hydrolases*; J.Am.Chem.Soc. **128** 9699
4) Dickason-Chesterfield *et al*. (2006), *Pharmacological Characterization of Endocannabinoid Transport and Fatty Acid Amide Hydrolase Inhibitors*; Cell.Mol.Neurobiol. **26** 405

PHYSICAL DATA

Molecular Weight:	307.35
Molecular Formula:	$C_{17}H_{17}N_5O$
Purity:	>98%
	NMR: (Conforms)
Solubility:	Soluble in Ethanol(15 mg/mL) or DMSO (>25 mg/ml).
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20ºC for up to 1 year from the date of purchase.

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