

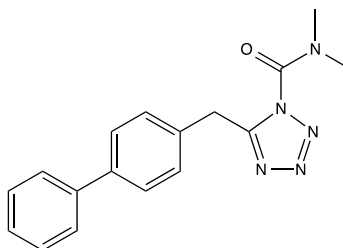
**Catalog # 10-2636**

**LY2183240**

CAS# 874902-19-9

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

Lot # FBS1036



LY2183240 is a highly potent inhibitor of cellular anandamide uptake ( $IC_{50} = 0.27nM^1$ ,  $15nM^2$ ). LY2183241 has also been found<sup>2,3,4</sup> 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 <sub>17</sub> H <sub>17</sub> N <sub>5</sub> O
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 -20°C for up to 1 year from the date of purchase.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**