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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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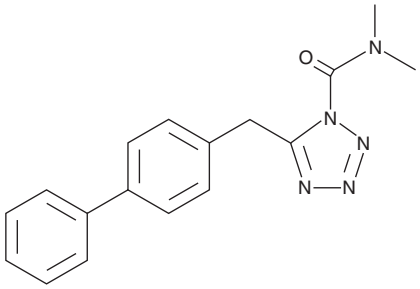
# PRODUCT INFORMATION

## LY2183240

*Item No. 10008663*

| | |
|---|---|
| **CAS Registry No.:** | 874902-19-9 |
| **Formal Name:** | 5-([1,1'-biphenyl]-4-ylmethyl)-N,N-dimethyl-1H-tetrazole-1-carboxamide |
| **MF:** | $C_{17}H_{17}N_5O$ |
| **FW:** | 307.4 |
| **Purity:** | ≥98% |
| **UV/Vis.:** | $\lambda_{max}$: 253 nm |
| **Supplied as:** | A crystalline solid |
| **Storage:** | -20°C |
| **Stability:** | ≥2 years |



*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

LY2183240 is supplied as a crystalline solid. A stock solution may be made by dissolving the LY2183240 in the solvent of choice. LY2183240 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of LY2183240 in these solvents is approximately 10, 2, and 3 mg/ml, respectively.

LY2183240 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, LY2183240 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. LY2183240 has a solubility of approximately 0.1 mg/ml in a 1:5 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

LY2183240 is a potent, competitive inhibitor of anandamide uptake ($IC_{50}$ = 270 pM; $K_i$ = 540 pM) and hydrolysis.[1-3] It increases anandamide levels in rat cerebellum ($ED_{50}$ = 1.37 mg/kg) and displays dose-dependent efficacy (3-30 mg/kg) in several rodent models of persistent pain.[1]

### References


1. Moore, S.A., Nomikos, G.G., Dickason-Chesterfield, A.K., *et al*. Identification of a high-affinity binding site involved in the transport of endocannabinoids. *Proc. Natl. Acad. Sci. USA* **102(49)**, 17852-17857 (2005).
2. Ortar, G., Cascio, M.G., Moriello, A.S., *et al*. Carbamoyl tetrazoles as inhibitors of endocannabinoid inactivation: A critical revisitation. *Eur. J. Med. Chem.* **43**, 62-72 (2008).
3. Di Marzo, V. Targeting the endocannabinoid system: To enhance or reduce? *Nat. Rev. Drug Discov.* **7**, 438-455 (2008).





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