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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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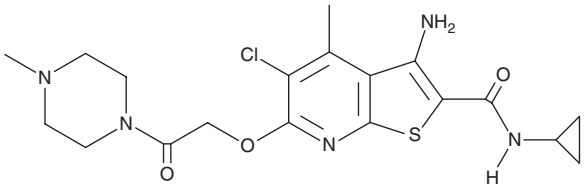
PRODUCT INFORMATION

LY2119620

Item No. 26373

CAS Registry No.:	886047-22-9
Formal Name:	3-amino-5-chloro-N-cyclopropyl-4-methyl-6-[2-(4-methyl-1-piperazinyl)-2-oxoethoxy]-thieno[2,3-b]pyridine-2-carboxamide
MF:	$C_{19}H_{24}ClN_5O_3S$
FW:	437.9
Purity:	≥98%
UV/Vis.:	λ_{max}: 291 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

LY2119620 is supplied as a crystalline solid. A stock solution may be made by dissolving the LY2119620 in the solvent of choice. LY2119620 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of LY2119620 in ethanol is approximately 1 mg/ml and approximately 50 mg/ml in DMSO and DMF.

LY2119620 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, LY2119620 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. LY2119620 has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

LY2119620 is a positive allosteric modulator of the M_2 and M_4 muscarinic acetylcholine receptors (mAChRs).[1] It binds to allosteric sites on M_2 and M_4 receptors with K_B values ranging from 1.8 to 3.4 µM. LY2119620 potentiates the activity of the AChR agonist acetylcholine (ACh; Item No. 23829) and the mAChR agonists iperoxo and oxotremorine M (Item No. 20847) at human recombinant M_2 and M_4 receptors expressed in CHO cell membranes. LY2119620 also exhibits allosteric agonism at M_2 and M_4 receptors (23.2 and 16.8%, respectively, of the maximal ACh response).

Reference

1. Croy, C.H., Schober, D.A., Xiao, H., *et al.* Characterization of the novel positive allosteric modulator, LY2119620, at the muscarinic M_2 and M_4 receptors. *Mol. Pharmacol.* **86(1)**, 106-115 (2014).

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