

Product Name: LY 2119620

Catalog No.: 6964

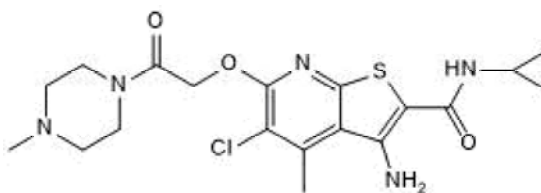
Batch No.: 1

CAS Number: 886047-22-9

IUPAC Name: 3-Amino-5-chloro-*N*-cyclopropyl-4-methyl-6-[2-(4-methyl-1-piperazinyl)-2-oxoethoxy]-thieno[2,3-*b*]pyridine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₉ H ₂₄ ClN ₅ O ₃ S
Batch Molecular Weight:	437.94
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM 1eq. HCl to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.11	5.52	15.99
Found	51.7	5.53	15.77

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Description:

Positive allosteric modulator of M₂ and M₄ muscarinic receptors. Potentiates activity of agonist at receptor in G protein-coupled functional assay. Cooperativity factor, $\alpha = 19.5$ and 79.4 for M₂ and M₄ in presence of ACh, respectively. Binds in extracellular site.

Physical and Chemical Properties:

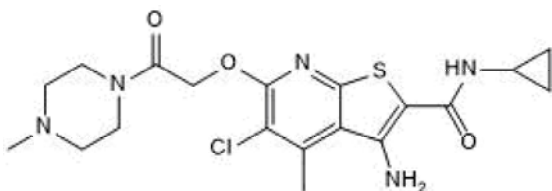
Batch Molecular Formula: C₁₉H₂₄ClN₅O₃S

Batch Molecular Weight: 437.94

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. HCl to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Croy et al (2014) Characterization of the novel positive allosteric modulator, LY2119620, at the muscarinic M(2) and M(4) receptors. *Mol.Pharmacol.* **86** 106. PMID: 24807965.

Kruse et al (2013) Activation and allosteric modulation of a muscarinic acetylcholine receptor. *Nature.* **504** 101. PMID: 24256733.

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