

Certificate of Analysis

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Product Name: ML 348

Catalog No.: 5345

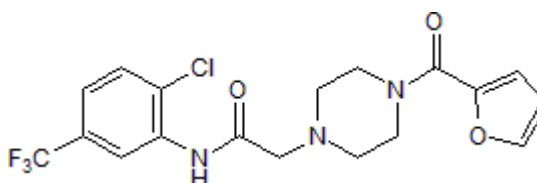
Batch No.: 1

CAS Number: 899713-86-1

IUPAC Name: *N*-[2-Chloro-5-(trifluoromethyl)phenyl]-4-(2-furanylcarbonyl)-1-piperazineacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₇ClF₃N₃O₃
Batch Molecular Weight: 415.79
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52	4.12	10.11
Found	52.23	4.06	10.09

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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IUPAC Name: *N*-[2-Chloro-5-(trifluoromethyl)phenyl]-4-(2-furanylcarbonyl)-1-piperazineacetamide

Description:

Selective and reversible lysophospholipase 1 (LYPLA1) inhibitor (IC_{50} = 210 nM). Exhibits 14-fold selectivity for LYPLA1 over LYPLA2. Also selective over a panel of ~30 other serine hydrolases.

Physical and Chemical Properties:

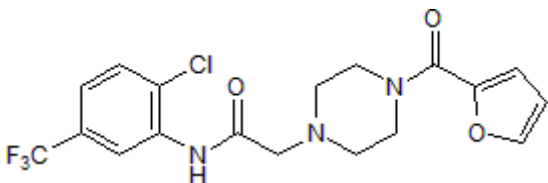
Batch Molecular Formula: $C_{18}H_{17}ClF_3N_3O_3$

Batch Molecular Weight: 415.79

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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:

Adibekian *et al* (2013) Characterization of a Selective, Reversible Inhibitor of Lysophospholipase 2 (LYPLA2). *Probe Reports from the NIH Molecular Libraries Program*. PMID: 24624465.

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