

Certificate of Analysis

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Product Name: CYM 50358 hydrochloride

Catalog No.: 4679

Batch No.: 2

CAS Number: 1781750-72-8

IUPAC Name: *N*-[4-(Aminomethyl)-2,6-dimethylphenyl]-5-(2,5-dichlorophenyl)-2-furancarboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₈Cl₂N₂O₂.HCl.½H₂O

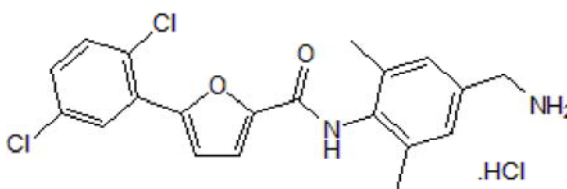
Batch Molecular Weight: 434.75

Physical Appearance: Off White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.25	4.64	6.44
Found	55.33	4.65	6.5

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

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Description:

Potent S1P₄ antagonist (IC₅₀ = 25 nM). Displays selectivity for S1P₄ against S1P₁, S1P₂, S1P₃ and S1P₅ receptors.

Physical and Chemical Properties:

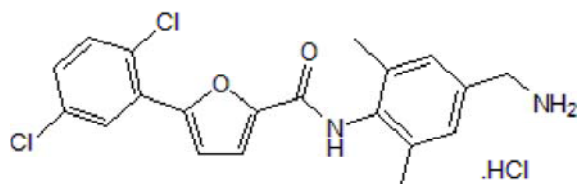
Batch Molecular Formula: C₂₀H₁₈Cl₂N₂O₂.HCl.½H₂O

Batch Molecular Weight: 434.75

Physical Appearance: Off White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

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:

Cencetti *et al* (2013) TGFβ1 evokes myoblast apoptotic response via a novel signaling pathway involving S1P₄ transactivation upstream of Rho-kinase-2 activation. *FASEB J.* **27** 4532. PMID: 23913862.

Guerrero *et al* (2011) Discovery, design and synthesis of the first reported potent and selective sphingosine-1-phosphate 4 (S1P₄) receptor antagonists. *Bioorg.Med.Chem.Lett.* **21** 3632. PMID: 21570287.

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