

Certificate of Analysis

Product Name: CCG 1423

Catalog No.: 5233

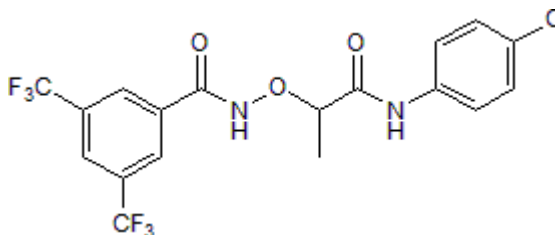
Batch No.: 1

CAS Number: 285986-88-1

IUPAC Name: *N*-[2-[(4-Chlorophenyl)amino]-1-methyl-2-oxoethoxy]-3,5-bis(trifluoromethyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₃ClF₆N₂O₃
Batch Molecular Weight: 454.75
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 10 mM with gentle warming
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	47.54	2.88	6.16
Found	47.27	2.78	6.18

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

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Description:

Rho/SRF pathway inhibitor; stimulates apoptosis of a melanoma cell line overexpressing RhoC (A375M2). Suppresses Rho-dependent invasion of PC-3 prostate cancer cells in vitro and inhibits lysophosphatidic acid-induced DNA synthesis in PC-3 prostate cancer cells. When used in combination with Retinoic acid, LY 294002 and Pyridone 6, it induces intermediate mesoderm differentiation from ESCs.

Physical and Chemical Properties:

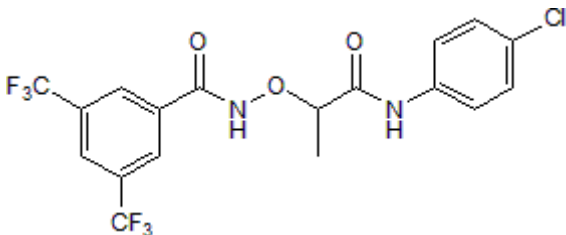
Batch Molecular Formula: C₁₈H₁₃ClF₆N₂O₃

Batch Molecular Weight: 454.75

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Evelyn et al (2007) CCG-1423: a small-molecule inhibitor of RhoA transcriptional signaling. *Mol.Cancer Ther.* **6** 2249. PMID: 17699722.

Mae et al (2010) Combination of small molecules enhances differentiation of mouse embryonic stem cells into intermediate mesoderm through BMP7-positive cells. *Biochem.Biophys.Res.Commun.* **393** 877. PMID: 20171952.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

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.

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