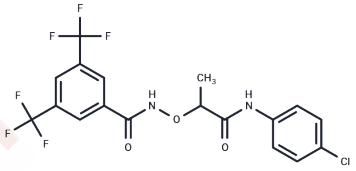
Data Sheet (Cat.No.T2014)

TargetMol

CCG-1423

Chemical Properties



CAS No. : 285986-88-1

Formula: C18H13ClF6N2O3

Molecular Weight: 454.75

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	CCG-1423, a selective RhoA pathway inhibitor, suppresses SRF-mediated transcription.
Targets(IC50)	Apoptosis,Rho,LRRK2,Ras
In vivo	In H9c2 cells, CCG-1423 inhibits MRTF nuclear localization and completely blocks the activity of STARS proximal reporter genes. It also suppresses TGF-β-induced fibrogenesis in human colon myofibroblasts. Under the influence of CCG-1423 and LY294002, mouse embryonic stem cells differentiate into the mesendoderm. In melanoma cells (A375M2 and SK-Mel-147) overexpressing RhoC, CCG-1423 selectively inhibits cell proliferation.
Cell Research	Cells in normal culture medium are plated (2,000 per well) in a 96-well plate coated with laminin. After attachment, the medium is replaced with serum-free medium (0% FBS) with 30 μmol/L LPA with or without 300 nM CCG-1423. Fresh LPA with or without CCG-1423 is added at day 5 to ensure that LPA and compound are present throughout the experiment. On day 8, WST-1 reagent is added to the wells for 1 h and absorbance at 450 nm is read using a Victor plate reader.(Only for Reference)

Solubility Information

Solubility	Ethanol: 4 mg/mL (8.8 mM),Heating is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 245 mg/mL (538.76 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.26 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.199 mL	10.9951 mL	21.9901 mL
5 mM	0.4398 mL	2.199 mL	4.398 mL
10 mM	0.2199 mL	1.0995 mL	2.199 mL
50 mM	0.044 mL	0.2199 mL	0.4398 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Evelyn CR, et al. Mol Cancer Ther. 2007, 6(8), 2249-2260.
Liu W X, Tan S J, Wang Y F, et al. Melatonin promotes the proliferation of primordial germ cell-like cells derived from porcine skin-derived stem cells: A mechanistic analysis. Journal of Pineal Research. 2022
Mae S, et al. Biochem Biophys Res Commun. 2010, 393(4), 877-882.
Chong NW, et al. PLoS One. 2012, 7(7), e40966.
Johnson LA, et al. Inflamm Bowel Dis. 2014, 20(1), 154-165.