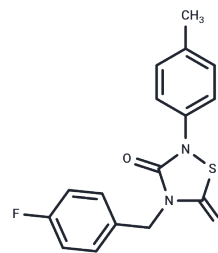


CCG-50014

Chemical Properties

CAS No. : 883050-24-6
Formula: C₁₆H₁₃FN₂O₂S
Molecular Weight: 316.35
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	CCG-50014 is a potent and selective inhibitor of RGS4 with IC ₅₀ of 30 nM.
Targets(IC ₅₀)	GTPase
In vitro	CCG-50014 is highly potent at inhibiting RGS4 and it fully inhibits several other RGS proteins, including RGS8, -16, and -19, but does not have activity on RGS7. Furthermore, CCG-50014 has no activity on a mutated form of RGS4 that lacks cysteine residues in the RGS homology domain (RGS4Cys?). CCG-50014 binds covalently to the RGS, forming an adduct on two cysteine residues located in an allosteric regulatory site. CCG-50014 is able to inhibit the RGS4?Gαo protein?protein interaction in a living cell. CCG-50014 represents the first of a class of small molecule RGS inhibitors that function in a cellular environment. [1] [2]

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 59 mg/mL (186.5 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1611 mL	15.8053 mL	31.6106 mL
5 mM	0.6322 mL	3.1611 mL	6.3221 mL
10 mM	0.3161 mL	1.5805 mL	3.1611 mL
50 mM	0.0632 mL	0.3161 mL	0.6322 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.

Reference

Blazer LL, et al. Biochemistry, 2011, 50(15), 3181-3192.

Turner EM, et al. ACS Med Chem Lett, 2012, 3(2), 146-150.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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