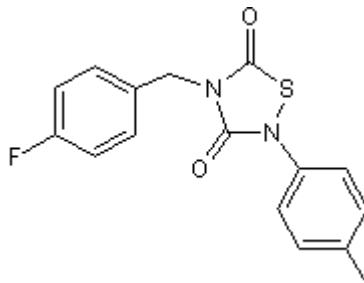


Certificate of Analysiswww.tocris.com**Product Name:** CCG 50014**Catalog No.:** 4567**Batch No.:** 1

CAS Number: 883050-24-6

IUPAC Name: 4-[(4-Fluorophenyl)methyl]-2-(4-methylphenyl)-1,2,4-thiadiazolidine-3,5-dione

1. PHYSICAL AND CHEMICAL PROPERTIES**Batch Molecular Formula:** C₁₆H₁₃FN₂O₂S**Batch Molecular Weight:** 316.35**Physical Appearance:** White solid**Solubility:** DMSO to 100 mM**Storage:** Store at +4°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 98.6% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 60.75 4.14 8.86

Found 60.32 4.04 8.86

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

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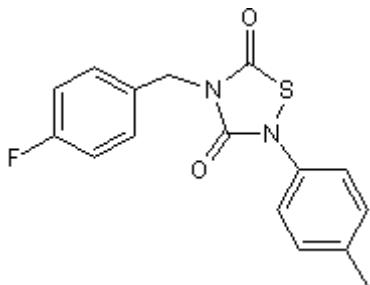
Description:

Potent and selective inhibitor of regulator of G-protein signaling 4 (RGS4) protein (IC_{50} values are 30.1 nM and 11.0 μ M for RGS4 and RGS8 respectively). Exhibits >20-fold selectivity for RGS4 over other RGS proteins.

Physical and Chemical Properties:Batch Molecular Formula: $C_{16}H_{13}FN_2O_2S$

Batch Molecular Weight: 316.35

Physical Appearance: White solid

Minimum Purity: >98%**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:

Blazer *et al* (2011) A nanomolar potency small molecule inhibitor of regulator of G protein signaling (RGS) proteins. *Biochemistry* **50** 3181. PMID: 21329361.

Turner *et al* (2012) Small molecule inhibitors of regulators of G protein signalling (RGS) proteins. *ACS Med.Chem.Lett.* **3** 146. PMID: 22368763.

Vashisth *et al* (2013) Conformational dynamics of a regulator of g-protein signaling protein reveals a mechanism of allosteric inhibition by a small molecule. *ACS Chem.Biol.* **8** 2778. PMID: 24093330.

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