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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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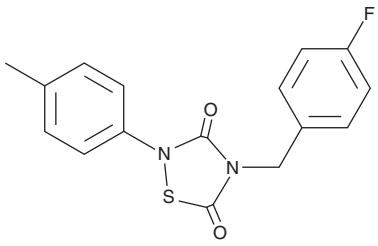
PRODUCT INFORMATION

CCG-50014

Item No. 10802

CAS Registry No.:	883050-24-6
Formal Name:	4-[(4-fluorophenyl)methyl]-2-(4-methylphenyl)-1,2,4-thiadiazolidine-3,5-dione
MF:	$C_{16}H_{13}FN_2O_2S$
FW:	316.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 251 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

CCG-50014 is supplied as a crystalline solid. A stock solution may be made by dissolving the CCG-50014 in the solvent of choice. CCG-50014 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of CCG-50014 in ethanol is approximately 1 mg/ml and 10 mg/ml in DMSO and DMF.

CCG-50014 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CCG-50014 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CCG-50014 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

CCG-50014 is an inhibitor of regulator of G protein signaling 4 (RGS4) (IC_{50} = 30 nM) and is >20-fold selective for RGS4 over other RGS proteins.[1] RGS proteins bind to the Gα subunits of activated heterotrimeric G proteins and accelerate the rate of GTP hydrolysis, acting as GTPase-activating proteins.[1] CCG-50014 irreversibly binds and destabilizes RGS4 with no effect on $G\alpha_0$, while blocking GTPase activity and $G\alpha_0$-dependent translocation of RGS4 to the membrane.[1]

Reference

1. Blazer, L. L., Zhang, H., Casey, E. M., *et al.* A nanomolar-potency small molecule inhibitor of regulator of G protein signaling (RGS) proteins. *Biochemistry* (2011).

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