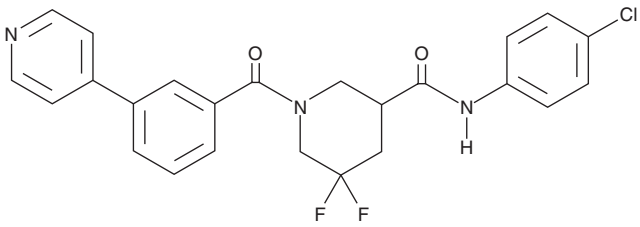
PRODUCT INFORMATION

CCG-232601

Item No. 24382

CAS Registry No.:	1922099-21-5
Formal Name:	N-(4-chlorophenyl)-5,5-difluoro-1-[3-(4-pyridinyl)benzoyl]-3-piperidinecarboxamide
MF:	$C_{24}H_{20}ClF_2N_3O_2$
FW:	455.9
Purity:	≥98%
UV/Vis.:	λ_{max}: 250 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CCG-232601 is supplied as a crystalline solid. A stock solution may be made by dissolving the CCG-232601 in the solvent of choice, which should be purged with an inert gas. CCG-232601 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of CCG-232601 in these solvents is approximately 30 mg/ml.

CCG-232601 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CCG-232601 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CCG-232601 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

CCG-232601 is an inhibitor of the Rho/MRTF/SRF transcriptional pathway and a derivative of CCG-203971 (Item No.15075).[1] CCG-232601 inhibits MRTF-dependent transcription in HEK293T cells (IC_{50} = 0.55 µM in a luciferase reporter assay). It also reduces expression of α-smooth muscle actin (α-SMA) in TGF-β-stimulated human dermal fibroblasts to 31% of control when used at a concentration of 10 µM. CCG-232601 (50 mg/kg) inhibits increases in dermal thickness and hydroxyproline content in a mouse model of dermal fibrosis induced by bleomycin (Item No. 13877).

Reference

1. Hutchings, K.M., Lisabeth, E.M., Rajeswaran, W., *et al.* Pharmacokinetic optimization [*sic*] of CCG-203971: Novel inhibitors of the Rho/MRTF/SRF transcriptional pathway as potential antifibrotic therapeutics for systemic scleroderma. *Bioorg. Med. Chem. Lett.* **27(8)**, 1744-1749 (2017).

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