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Produktinformation

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

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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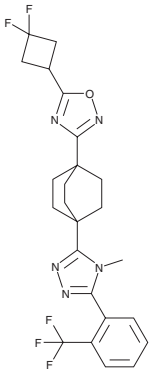
PRODUCT INFORMATION

MK-4101

Item No. 29159



CAS Registry No.:	935273-79-3
Formal Name:	5-(3,3-difluorocyclobutyl)-3-[4-[4-methyl-5-[2-(trifluoromethyl)phenyl]-4H-1,2,4-triazol-3-yl]bicyclo[2.2.2]oct-1-yl]-1,2,4-oxadiazole
MF:	$C_{24}H_{24}F_5N_5O$
FW:	493.5
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years

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

Laboratory Procedures

MK-4101 is supplied as a crystalline solid. A stock solution may be made by dissolving the MK-4101 in the solvent of choice, which should be purged with an inert gas. MK-4101 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of MK-4101 in these solvents is approximately 30 mg/ml.

MK-4101 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MK-4101 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. MK-4101 has a solubility of approximately 0.11 mg/ml in a 1:8 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

MK-4101 is a Smoothened (Smo) receptor antagonist.[1] It binds to human recombinant Smo expressed in HEK293T cells (IC_{50} = 1.1 µM) and inhibits Gli1-mediated hedgehog signaling in a reporter assay (IC_{50} = 1.5 µM). It is also an inhibitor of 11β-hydroxy steroid dehydrogenase-1. MK-4101 (40 and 80 mg/kg per day) reduces tumor growth in a murine medulloblastoma mouse allograft model, induces tumor regression when administered at a dose of 80 mg/kg twice per day, and reduces expression of the hedgehog pathway-associated transcription factor *Gli1* in tumor tissue.

Reference

1. Filocamo, G., Brunetti, M., Colaceci, F., *et al.* MK-4101, a potent inhibitor of the Hedgehog pathway, is highly active against medulloblastoma and basal cell carcinoma. *Mol. Cancer Ther.* **15(6)**, 1177-1189 (2016).

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