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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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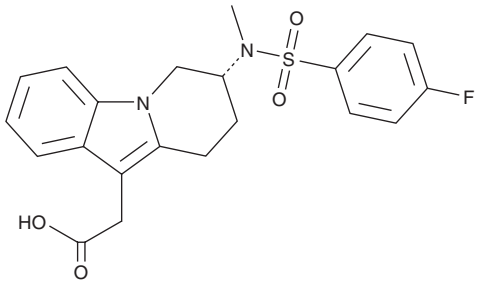
PRODUCT INFORMATION

MK-7246

Item No. 34208

CAS Registry No.:	1218918-62-7
Formal Name:	(7R)-7-[[(4-fluorophenyl)sulfonyl]methylamino]-6,7,8,9-tetrahydro-pyrido[1,2-a]indole-10-acetic acid
MF:	$C_{21}H_{21}FN_2O_4S$
FW:	416.5
Purity:	≥98%
Supplied as:	A 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-7246 is supplied as a solid. A stock solution may be made by dissolving the MK-7246 in the solvent of choice, which should be purged with an inert gas. MK-7246 is soluble in the organic solvent DMSO at a concentration of approximately 50 mg/ml.

Description

MK-7246 is an antagonist of the prostaglandin D_2 (PGD_2; Item No. 12010) receptor $CRTH_2/DP_2$ (K_i = 2.5 nM).[1] It is selective for $CRTH_2/DP_2$ over DP_1, the $PGF_{2\alpha}$ receptor (FP), the PGI_2 receptor (IP), and the thromboxane A_2 (TP) receptor (K_is = 373, >25,100, >23,030, and 3,804 nM, respectively), as well as the PGE_2 receptor subtypes 1-4 ($EP_{1\text{-}4}$; K_is = 7,668-23,330 nM). MK-7246 inhibits 13,14-dihydro-15-keto-PGD_2-induced inhibition of cAMP formation in HEK293 cells expressing human $CRTH_2/DP_2$ (IC_{50} = 3 nM). It also inhibits 13,14-dihydro-15-keto-PGD_2-induced eosinophil shape change (IC_{50} = 2.2 nM) and CD11b upregulation on eosinophils and basophils in isolated human whole blood (IC_{50}s = 6.2 and 5.4 nM, respectively). MK-7246 (1 mg/kg) decreases antigen-induced late-phase bronchoconstriction and completely prevents airway hyperresponsiveness in sheep.

Reference

1. Gervais, F.G., Sawyer, N., Stocco, R., *et al.* Pharmacological characterization of MK-7246, a potent and selective CRTH2 (chemoattractant receptor-homologous molecule expressed on T-helper type 2 cells) antagonist. *Mol. Pharmacol.* **79(1)**, 69-76 (2011).

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