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Produktinformation

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- 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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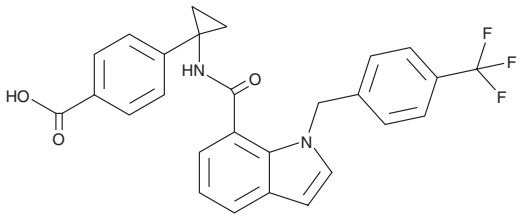
PRODUCT INFORMATION

MF766

Item No. 36076

CAS Registry No.:	1050656-06-8
Formal Name:	4-[1-[[[1-[[4-(trifluoromethyl) phenyl]methyl]-1H-indol-7-yl] carbonyl]amino]cyclopropyl]-benzoic acid
MF:	$C_{27}H_{21}F_3N_2O_3$
FW:	478.5
Purity:	≥95%
UV/Vis.:	λ_{max}: 228 nm
Supplied as:	A 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

MF766 is supplied as a solid. A stock solution may be made by dissolving the MF766 in the solvent of choice, which should be purged with an inert gas. MF766 is soluble in DMSO.

Description

MF766 is an antagonist of the prostaglandin E_2 (PGE_2) receptor subtype EP_4 (K_i = 0.23 nM).[1] It is selective for EP_4 over the PGD_2 receptor subtype DP_1 (K_i = 1,648 nM) as well as the EP_1, EP_2, EP_3, and $CRTH_2/DP_2$ receptors, the PGI_2 receptor (IP), thromboxane receptor (TP), and PGF receptor (FP; K_is = >6,000 nM for all). It inhibits cAMP accumulation induced by PGE_2 (Item No. 14010) in HEK293 cells (IC_{50} = 1.3 nM). MF766 (312.5 and 1,250 nM) reverses PGE_2-induced decreases in IFN-γ production in IL-2-stimulated primary human natural killer cells.[2] It reduces paw edema in a rat model of adjuvant-induced arthritis in a dose-dependent manner.[1] MF766 (30 mg/kg) inhibits tumor growth in a CT26 murine colon cancer model.[2]

References

1. Colucci, J., Boyd, M., Berthelette, C., *et al.* Discovery of 4-{1-[({1-[4-(trifluoromethyl)benzyl]-1*H*-indol-7-yl}carbonyl)amino]cyclopropyl}benzoic acid (MF-766), a highly potent and selective EP_4 antagonist for treating inflammatory pain. *Bioorg. Med. Chem. Lett.* **20(12)**, 3760-3763 (2010).
2. Wang, Y., Cui, L., Georgiev, P., *et al.* Combination of EP_4 antagonist MF-766 and anti-PD-1 promotes anti-tumor efficacy by modulating both lymphocytes and myeloid cells. *Oncoimmunology* **10(1)**, 1896643 (2021).

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