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INCB 3284

Catalog No: tcsc3565

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
887401-92-5

Formula:
$C_{26}H_{31}F_3N_4O_4$

Pathway:
Immunology/Inflammation;GPCR/G Protein

Target:
CCR;CCR

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 83.3 mg/mL (160.03 mM)

Observed Molecular Weight:
520.54

Product Description

INCB 3284 is a potent, selective and orally bioavailable human **CCR2** antagonist, inhibiting monocyte chemoattractant protein-1 binding to **hCCR2**, with an **IC_{50}** of 3.7 nM. INCB 3284 can be used in the research of acute liver failure.

IC50 & Target: IC50: 3.7 nM (hCCR2)[1]

In Vitro: INCB 3284 is a pentent, selective and orally bioavailable human CCR2 antagonist, inhibiting monocyte chemoattractant

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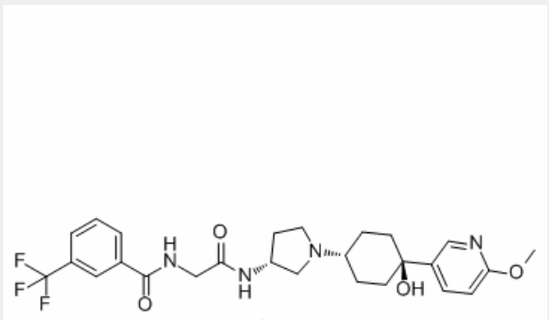
protein-1 binding to hCCR2, with an IC_{50} of 3.7 nM. INCB 3284 also causes an IC_{50} of 4.7 nM in antagonism of chemotaxis activity, an IC_{50} of 84 μM in inhibition of the hERG potassium current. However, INCB 3284 has no effec on CCR1, CCR3, CCR5, CXCR3, and CXCR5, or additional GPCRs at a concentration of 1 μM. Moreover, INCB 3284 potently inhibits CCR2-mediated signaling events such as intracellular calcium mobilization and ERK phosphorylation with IC_{50} values of 6 and 2.6 nM, respectively[1].

In Vivo: INCB 3284 (1 mg/kg/day, ip) reduces liver damage, and decreases microglia activation in AOM-treated mice via inhibition on CCR2. INCB 3284 also significantly reduces the pERK1/2 to tERK1/2 ratio, as well as G-protein signaling pathway activity and proinflammatory cytokine production in cortex lysates from mice administed with azoxymethane[2].



trans isomer

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!

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