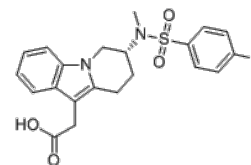


Product Name : MK-7246
Cat. No. : PC-61565
CAS No. : 1218918-62-7
Molecular Formula : C₂₁H₂₁N₂O₄S
Molecular Weight : 416.467
Target : Prostaglandin Receptor
Solubility : 10 mM in DMSO



Biological Activity

MK-7246 is a potent, selective, orally available **prostaglandin D₂ receptor (CRTH₂, GPR44)** antagonist with K_i of 2.5 nM (hCRTH₂).

MK-7246 displays 149-fold selectivity over DP receptor, >1,500-fold over other prostanoid receptors, also binds to recombinant mouse, rat, dog and cynomolgus monkey CRTH₂ receptors with K_i of <10 nM.

MK-7246 blocks DK-PGD₂-induced inhibition of cAMP formation in HEK293E-CRTH₂ cells with IC₅₀ of 3 nM, inhibits DK-PGD₂-induced eosinophil shape change (IC₅₀=2.2 nM), also efficiently blocks DK-PGD₂-induced CD11b up-regulation on eosinophils and basophils (IC₅₀= 6.2 and 5.4 nM) in human whole blood.

MK-7246 significantly reduces antigen-induced late phase bronchoconstriction and airway hyper-responsiveness in vivo.

References

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Gil MA, et al. *Eur J Pharmacol*. 2014 Nov 15;743:106-16.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com