

CRTH2-IN-1

Catalog No: tcsc0035127



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg



Specifications

CAS No:

926661-54-3

Formula:

$C_{21}H_{21}FN_2O_4S$

Pathway:

GPCR/G Protein

Target:

Prostaglandin Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

Ramatroban analog

Observed Molecular Weight:

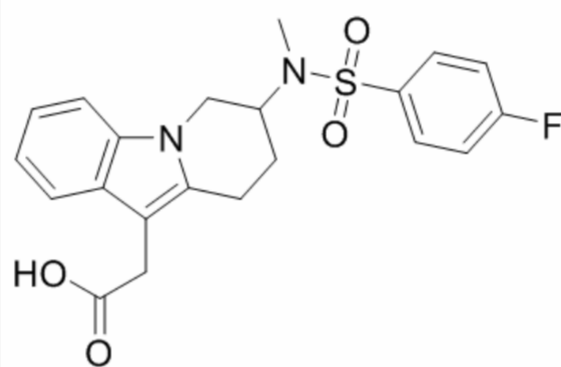
416.47

Product Description

CRTH2-IN-1 (Ramatroban analog) is a selective **prostaglandin D2 receptor DP2 (CRTH2)** antagonist with an IC₅₀ of 6 nM in a human DP2 binding assay.

IC50 & Target: IC50: 6 nM (hDP2, CRTH2), 1 μM (hDP1)^[1]

In Vitro: CRTH2-IN-1 (Ramatroban analog, Compound 5) is a novel prostaglandin D2 receptor DP2 (CRTH2) antagonist with an IC₅₀ of 7 nM in a human whole blood eosinophil shape change assay (hESC). CRTH2-IN-1 (Ramatroban analog) is a novel tricyclic antagonist of the prostaglandin D2 receptor DP2 (CRTH2) with efficacy in a murine model of allergic rhinitis. Human prostaglandin D1 receptor (hDP1) binding is performed using ³H-PGD2 and human platelet membranes. Human thromboxane receptor (hTP) binding performed using human platelet membranes and ³H-SQ-29,548. Human prostacyclin receptor (hIP) binding performed using hIP/293 membranes and ³Hiloprost. CRTH2-IN-1 inhibits hDP1 binding with an IC₅₀ of 1μM. CRTH2-IN-1 inhibits hTP and hIP binding with IC₅₀s of >100 μM. CRTH2-IN-1 inhibits human CYP isoforms CYP3A4, CYP 2C9 and CYP2D6 with IC₅₀s of 7, 5 and >30 μM, respectively^[1].



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