

---

## Product Data Sheet

---

Product Name: CRTH2-IN-1 (Ramatroban analog)

Cat. No.: GC31998

### Chemical Properties

Cas. No. 926661-54-3

SMILES O=C(O)CC1=C(CCC(N(S(=O))(C2=CC=C(F)C=C2)=O)C)C3)N3C4=C1C=CC=C4

Formula  $C_{21}H_{21}FN_2O_4S$  M.Wt 416.47

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure

### Background

CRTH2-IN-1 (Ramatroban analog) is a selective prostaglandin D2 receptor DP2 (CRTH2) antagonist with an IC<sub>50</sub> of 6 nM in a human DP2 binding assay.

CRTH2-IN-1 (Ramatroban analog, Compound 5) is a novel prostaglandin D2 receptor DP2 (CRTH2) antagonist with an IC<sub>50</sub> 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 IC<sub>50</sub> of 1 μM. CRTH2-IN-1 inhibits hTP and hIP binding with IC<sub>50</sub>s of >100 μM. CRTH2-IN-1 inhibits human CYP isoforms CYP3A4, CYP 2C9 and CYP2D6 with IC<sub>50</sub>s of 7, 5 and >30 μM, respectively[1].

[1]. Stearns BA, et al. Novel tricyclic antagonists of the prostaglandin D2 receptor DP2

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

**Product Data Sheet**

---

with efficacy in a murine model of allergic rhinitis. Bioorg Med Chem Lett. 2009 Aug 15;19(16):4647-51.

***Caution: Product has not been fully validated for medical applications. For research use only.***

***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com***

***Address: 10292 Central Ave. #205, Montclair, CA, USA***