

---

## Product Data Sheet

---

Product Name: MK-8318  
Cat. No.: GC31851

### Chemical Properties

Cas. No. 1416581-40-2

SMILES FC1=CC=C(N(C(C2=CC=C(OC(F)(F)F)C=C2)=O)[C@@H](CCC3[C@@H]3[C@@H]4N(C(CCC(O)=O)=O)C5CC5)C4=C1

Formula C<sub>27</sub>H<sub>26</sub>F<sub>4</sub>N<sub>2</sub>O<sub>5</sub> M.Wt 534.5

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 size: ship with RT , or blue ice upon request.

Structure

### Background

MK-8318 is a potent and selective CRTh2 receptor antagonist with a K<sub>i</sub> of 5.0 nM.

MK-8318 also inhibits β-arrestin, cAMP, CYP3A4, CYP2C9, and CYP2D6 with IC<sub>50</sub>s of 3.5±2.1 nM, 8.0±6.8 nM, 50 μM, 50 μM and 50 μM[1].

In a sheep model, MK-8318 blocks late airway response (LAR) and airway hyperresponsiveness (AHR) after i.v. infusion at 1 mg/kg. MK-8318 shows 76% LAR efficacy and 114% AHR efficacy. MK-8318 also displays good efficacy on BAL cells/pulmonary function from ovalbumin sensitized and challenged Brown Norway rats at 3, 10, and 30 mg/kg oral dosing[1].

[1]. Huang X, et al. Discovery of MK-8318, a Potent and Selective CRTh2 Receptor Antagonist for the Treatment of Asthma. ACS Med Chem Lett. 2018 Jun 23;9(7):679-684.

**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