

# AMG-009

Catalog No: tcsc6808



## Available Sizes

**Size:** 1mg



## Specifications

**CAS No:**

1027847-67-1

**Formula:**

$C_{26}H_{26}Cl_2N_2O_7S$

**Pathway:**

GPCR/G Protein

**Target:**

Prostaglandin Receptor

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

581.46

## Product Description

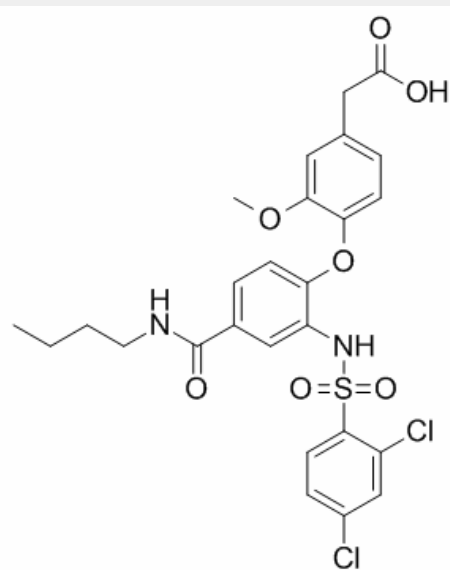
AMG-009 is a potent antagonist of **prostaglandin D2**, with **IC<sub>50</sub>** of 3 nM and 12 nM for CRTH2 and DP receptors, respectively.

IC50 & Target: IC50: 3 nM (CRTH2), 12 nM (DP)<sup>[3]</sup>

**In Vitro:** AMG-009 inhibits PGD2-induced down-modulation of CRTH2 on CD16 negative granulocytes (eosinophils) in human whole blood with a  $K_i$  of 1 nM. AMG 009 also inhibits PGD2-induced cAMP response mediated by DP in platelets in 80% human whole blood with a  $K_i$  of 148 nM. AMG 009 inhibits guinea pig CRTH2 receptors ( $IC_{50}$ =3 nM) and a PGD2-induced cAMP response assay with cells expressing the guinea pig DP receptors ( $K_i$ =131 nM)<sup>[1]</sup>.

**In Vivo:**

AMG 009 (3, 10 or 30 mg/kg, s.c.) results in a dose dependent decrease in airway resistance provoked by PGD2 aerosol in an acute guinea pig model<sup>[1]</sup>. In a guinea pig model of PGD2-induced airway constriction, AMG 009 significantly improves DP potency, with  $K_b$  of 82 nM<sup>[2]</sup>.



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