Web: www.taiclone.com
Tel: +886-2-2735-9682
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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_{50}** of 3 nM and 12 nM for CRTH2 and DP receptors, respectively.

IC50 & Target: IC50: 3 nM (CRTH2), 12 nM (DP)[3]

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)[1].

In Vivo:

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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[1]. In a guinea pig model of PGD2-induced airway constriction, AMG 009 significantly improves DP potency, with K_b of 82 nM[2].