## AMG-009

Cat. No.:	HY-19499				
CAS No.:	1027847-67-1				
Molecular Formula:	C <sub>26</sub> H <sub>26</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>7</sub> S				
Molecular Weight:	581.46				
Target:	Prostaglandin Receptor				
Pathway:	GPCR/G Protein				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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### SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7198 mL	8.5990 mL	17.1981 mL
	5 mM	0.3440 mL	1.7198 mL	3.4396 mL
	10 mM	0.1720 mL	0.8599 mL	1.7198 mL

BIOLOGICAL ACTIVITY				
Description	AMG-009 is a potent antagonis	st of prostaglandin D2, with IC <sub>50</sub> of 3 nM and 12 nM for CRTH2 and DP receptors, respectively.		
IC <sub>50</sub> & Target	DP 12 nM (IC <sub>50</sub> )	CRTH2 3 nM (IC <sub>50</sub> )		
In Vitro	AMG-009 inhibits PGD2-induced down-modulation of CRTH2 on CD16 negative granulocytes (eosinophils) in human whole blood with a K <sub>i</sub> of 1 nM. AMG 009 also inhibits PGD2-induced cAMP response mediated by DP in platelets in 80% human whole blood with a K <sub>i</sub> of 148 nM. AMG 009 inhibits guinea pig CRTH2 receptors (IC <sub>50</sub> =3 nM) and a PGD2-induced cAMP response assay with cells expressing the guinea pig DP receptors (K <sub>i</sub> =131 nM) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
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 <sub>b</sub> of 82 nM <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

# Product Data Sheet

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CI

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### REFERENCES

[1]. Liu J, et al. Discovery and optimization of CRTH2 and DP dual antagonists. Bioorg Med Chem Lett. 2009 Nov 15;19(22):6419-23.

[2]. Liu J, et al. Discovery of AMG 853, a CRTH2 and DP Dual Antagonist. ACS Med Chem Lett. 2011 Mar 2;2(5):326-30.

[3]. Johnson MG, et al. Solving time-dependent CYP3A4 inhibition for a series of indole-phenylacetic acid dual antagonists of the PGD(2) receptors CRTH2 and DP. Bioorg Med Chem Lett. 2014 Jul 1;24(13):2877-80.

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

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