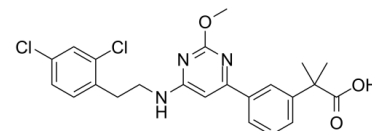


Data Sheet

Product Name:	PGD2-IN-1
Cat. No.:	CS-6338
CAS No.:	885066-67-1
Molecular Formula:	C ₂₃ H ₂₃ Cl ₂ N ₃ O ₃
Molecular Weight:	460.35
Target:	Others
Pathway:	Others
Solubility:	DMSO : ≥ 25 mg/mL (54.31 mM)



BIOLOGICAL ACTIVITY:

PGD2-IN-1 is an antagonist of **DP** extracted from patent WO 2006044732 A2, example 15 (d); has an **IC₅₀** of 0.3 nM. IC₅₀ & Target: IC₅₀: 0.3 nM^[1] **In Vitro:** Prostaglandin D₂ (PGD₂) is a major inflammatory mediator implicated in asthma and allergic rhinitis. It is largely produced as the major cyclooxygenase metabolite upon allergen-provoked degranulation from mast cells. Blockage of PGD₂ using DP antagonists has been shown to be effective at alleviating the symptoms of allergic rhinitis in multiple species and more specifically has been shown to inhibit the antigen-induced nasal congestion^[2].

References:

[1]. Lim, Sungtaek, et al. 2, 6-SUBSTITUTED-4-MONOSUBSTITUTEDAMINO-PYRIMIDINE AS PROSTAGLANDIN D₂ RECEPTOR ANTAGONISTS. WO2006044732A2.

[2]. Mu L, et al. Understanding DP receptor antagonism using a CoMSIA approach. Bioorg Med Chem Lett. 2011 Jan 1;21(1):66-75.

CAIndexNames:

Benzeneacetic acid, 3-[6-[[2-(2,4-dichlorophenyl)ethyl]amino]-2-methoxy-4-pyrimidinyl]-α,α-dimethyl-

SMILES:

O=C(O)C(C)(C)C1=CC=CC(C2=NC(OC)=NC(NCCC3=CC=C(Cl)C=C3Cl)=C2)=C1

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

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