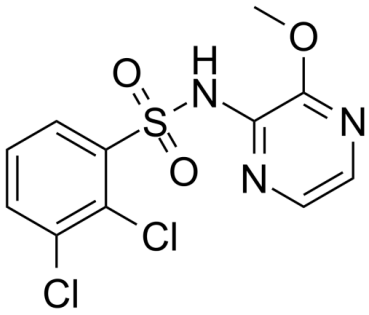
Data Sheet

Product Name:	AZD2098
Cat. No.:	CS-6789
CAS No.:	566203-88-1
Molecular Formula:	C11H9Cl2N3O3S
Molecular Weight:	334.18
Target:	CCR
Pathway:	GPCR/G Protein; Immunology/Inflammation
Solubility:	DMSO : 100 mg/mL (299.24 mM; Need ultrasonic); H2O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

AZD2098 is a potent and selective **CC-chemokine receptor 4 (CCR4)** inhibitor with **pIC_{50}**s of 7.8, 8.0, 8.0 and 7.6 for human, rat, mouse and dog respectively, used for asthma research[1][2]. IC50 & Target: pIC50: 7.8 (hCCR4), 8.0 (rat CCR4), 8.0 (mouse CCR4), 7.6(dog CCR4)[1] **In Vitro:** AZD2098 potently inhibits chemokine-induced cellular responses, with pIC_{50} of 7.5 and 6.3 against CCL22-induced Ca^{2+} influx in hCCR4-expressing CHO cells and CCL17- or CCL22-induced chemotaxis of primary human Th2 cells respectively [1].

In Vivo: AZD2098 (73.5-5.0 μg/kg; p.o.; BID; twice a day; 1 hour before and every 12 hours after antigen challenge) exhibits efficacy against antigen-induced inflammatory response among ovalbumin-sensitized rats, and the changes are first visible at a dose of 0.22 μmol/kg and maximal at 7.5 μmol/kg[1].

References:

[1]. Kindon N, et al. Discovery of AZD-2098 and AZD-1678, Two Potent and Bioavailable CCR4 Receptor Antagonists. ACS Med Chem Lett. 2017 Sep 1;8(9):981-986.

[2]. Asher Mullard. Cancer charity sees success re-prioritizing industry's shelved compounds. Nat Rev Drug Discov. 2014 May;13(5):319-21.

CAIndexNames:

Benzenesulfonamide, 2,3-dichloro-N-(3-methoxy-2-pyrazinyl)-

SMILES:

O=S(C1=CC=CC(Cl)=C1Cl)(NC2=NC=CN=C2OC)=O

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

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