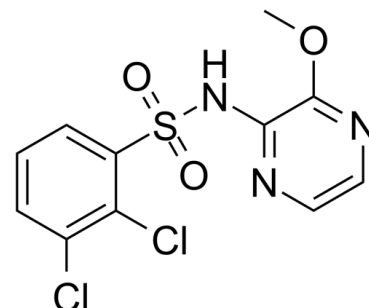


## Data Sheet

<b>Product Name:</b>	AZD2098
<b>Cat. No.:</b>	CS-6789
<b>CAS No.:</b>	566203-88-1
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>9</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	334.18
<b>Target:</b>	CCR
<b>Pathway:</b>	GPCR/G Protein; Immunology/Inflammation
<b>Solubility:</b>	DMSO : 100 mg/mL (299.24 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

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

**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<sup>[1]</sup>.

### 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.**

Tel: 732-484-9848

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA