

Product Data Sheet

Product Name: AZD1981

Cat. No.: GC12434

Chemical Properties

Cas. No. 802904-66-1

Chemical Name 2-[4-acetamido-3-(4-chlorophenyl)sulfanyl-2-methylindol-1-yl]acetic acid

SMILES CC1=C(C2=C(N1CC(=O)O)C=CC=C2NC(=O)C)SC3=CC=C(C=C3)Cl

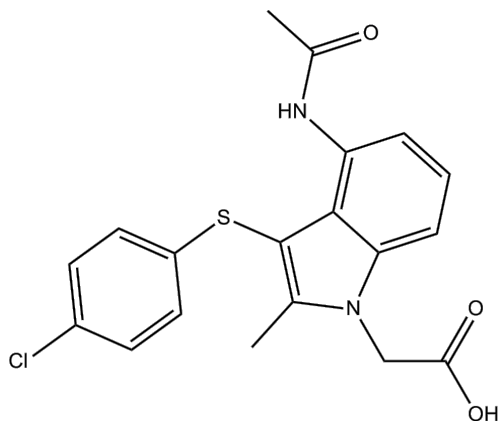
Formula $C_{19}H_{17}ClN_2O_3S$ M.Wt 388.87

Solubility $\geq 19.8\text{mg/mL}$ in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

AZD1981 is a selective, orally bioavailable and potent antagonist of the chemoattractant receptor-homologous expressed on Th2 lymphocytes receptor (CRTh2 or DP2) with an IC_{50} value of 4 nM [1].

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

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AZD1981 has shown to inhibit eosinophil migration with a pIC₅₀ value of 7.6±0.1. AZD1981 could block chemotaxis of DP2+ T-cell lines with a pIC₅₀ value of 7.5±0.1. AZD1981 has been demonstrated to inhibit PGD₂ binding to mouse, rat, rabbit, dog, guinea pig and human DP2. AZD1981 could inhibit shape change induced by DP2 in dog and guinea pig granulocytes as well as in human eosinophils and basophils in blood [2].

References:

- [1] Luker T1, Bonnert R, Brough S, Cook AR, Dickinson MR, Dougall I, Logan C, Mohammed RT, Paine S, Sanganeer HJ, Sargent C, Schmidt JA, Teague S, Thom S. Substituted indole-1-acetic acids as potent and selective CRTh2 antagonists-discovery of AZD1981. *Bioorg Med Chem Lett*. 2011 Nov 1;21(21):6288-92.
- [2] Schmidt JA1, Bell FM, Akam E, Marshall C, Dainty IA, Heinemann A, Dougall IG, Bonnert RV, Sargent CA. Biochemical and pharmacological characterization of AZD1981, an orally available selective DP2 antagonist in clinical development for asthma. *Br J Pharmacol*. 2013 Apr;168(7):1626-38.

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