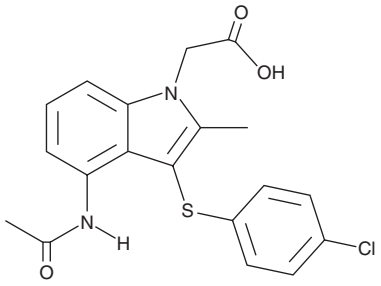
PRODUCT INFORMATION

AZD 1981

Item No. 20763

CAS Registry No.:	802904-66-1
Formal Name:	4-(acetylamino)-3-[(4-chloro phenyl)thio]-2-methyl-1H-indole-1-acetic acid
MF:	$C_{19}H_{17}ClN_2O_3S$
FW:	388.9
UV/Vis.:	λ_{max}: 223, 291 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AZD 1981 is supplied as a crystalline solid. A stock solution may be made by dissolving the AZD 1981 in the solvent of choice, which should be purged with an inert gas. AZD 1981 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of AZD 1981 in these solvents is approximately 15 mg/ml.

AZD 1981 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AZD 1981 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. AZD 1981 has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

AZD 1981 is a DP_2/$CRTH_2$ receptor antagonist (IC_{50} = 3.98 nM).[1] It is selective for DP_2 over a panel of receptors, ion channels, transporters, and enzymes, including DP_1, COX-1, and COX-2, at 10 µM. AZD 1981 (3-100 nM) inhibits increases in the expression of CD11b, a cell adhesion molecule, induced by 13,14-dihydro-15-keto-prostaglandin D_2 (13,14-dihydro-15-keto-PGD_2; Item No. 12610) in isolated human eosinophils. It also inhibits 13,14-dihydro-15-keto-PGD_2-induced chemotaxis of isolated human eosinophils and T cells in a concentration-dependent manner.

Reference

1. Schmidt, J.A., Bell, F.M., Akam, E., *et al.* Biochemical and pharmacological characterization of AZD1981, an orally available selective DP_2 antagonist in clinical development for asthma. *Br. J. Pharmacol.* **168(7)**, 1626-1638 (2013).

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