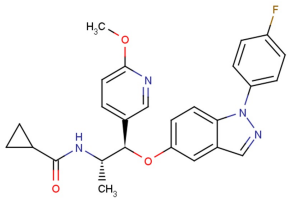
Data Sheet (Cat.No.T14374)

TargetMol
A DRUG SCREENING EXPERT

AZD2906

Chemical Properties



CAS No.:	1034148-15-6
Formula:	C26H25FN4O3
Molecular Weight:	460.5
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	AZD2906 shows IC50s of 2.2, 0.3, 41.6 and 7.5 nM at GR in human, rat PBMC and human, rat whole blood, respectively[1]. AZD2906 is a selective glucocorticoid receptor (GR) agonist, increases micronucleated immature erythrocytes in the bone marrow of rats.
Targets(IC_{50})	Glucocorticoid receptor, Human PBMC: 2.2 nM Glucocorticoid receptor, Rat PBMC: 0.3 nM Glucocorticoid receptor, Human whole blood: 41.6 nM Glucocorticoid receptor, Rat whole blood: 7.5 nM
In vitro	AZD2906 is a selective glucocorticoid receptor (GR), with IC50s of 2.2, 0.3, 41.6 and 7.5 nM at GR in human, rat PBMC and human, rat whole blood, respectively[1].
In vivo	AZD2906 (5, 25, 50 mg/kg, p.o.) increases micronucleated immature erythrocytes (MIE) in the bone marrow of rats after treatment for 2 days[1]. AZD2906 (5, 25 mg/kg, p.o.) induces an accumulation of glycogen in the liver of rats. And it exhibits cortical lymphocytic atrophy of a moderate to marked degree in the thymus of rats[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (271.44 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.172 mL	10.858 mL	21.716 mL
5 mM	0.434 mL	2.172 mL	4.343 mL
10 mM	0.217 mL	1.086 mL	2.172 mL
50 mM	0.043 mL	0.217 mL	0.434 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Hayes JE, et al. Micronucleus induction in the bone marrow of rats by pharmacological mechanisms. I: glucocorticoid receptor agonism. Mutagenesis. 2013 Mar;28(2):227-32.

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