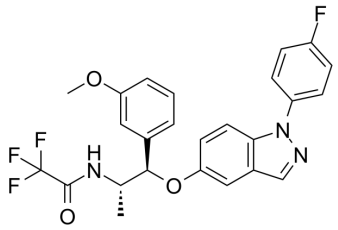
AZD5423

Cat. No.:	HY-108243
CAS No.:	1034148-04-3
Molecular Formula:	$C_{25}H_{21}F_4N_3O_3$
Molecular Weight:	487.45
Target:	Glucocorticoid Receptor
Pathway:	Immunology/Inflammation
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (205.15 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0515 mL	10.2575 mL	20.5149 mL
	5 mM	0.4103 mL	2.0515 mL	4.1030 mL
	10 mM	0.2051 mL	1.0257 mL	2.0515 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.27 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AZD5423 is an inhaled, potent, selective, and non-steroidal glucocorticoid receptor (GR) modulator (SGRM)[1]. AZD5423 effectively reduces allergen-induced responses in subjects with mild allergic asthma[2].

IC_{50} & Target

Glucocorticoid receptor[1]

In Vitro

The affinity of AZD5423 to the glucocorticoid receptor is high with an IC_{50} of 0.9 nM in a radioligand human glucocorticoid receptor assay, and selectivity towards other steroid hormone receptors is >900-fold[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Werkström V, et al. Safety, Pharmacokinetics and Pharmacodynamics of the Selective Glucocorticoid Receptor Modulator AZD5423 after Inhalation in Healthy Volunteers. Basic Clin Pharmacol Toxicol. 2016 Dec;119(6):574-581.

[2]. Gauvreau GM, et al. A nonsteroidal glucocorticoid receptor agonist inhibits allergen-induced late asthmatic responses. Am J Respir Crit Care Med. 2015 Jan 15;191(2):161-7.

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