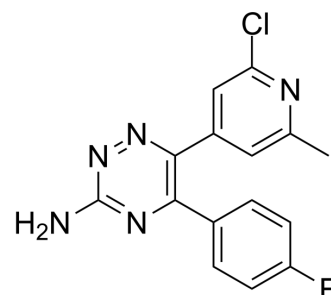


Imaradenant

Cat. No.:	HY-101980		
CAS No.:	1321514-06-0		
Molecular Formula:	C ₁₅ H ₁₁ ClFN ₅		
Molecular Weight:	315.73		
Target:	Adenosine Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 83.3 mg/mL (263.83 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.1673 mL	15.8363 mL	31.6726 mL
5 mM	0.6335 mL	3.1673 mL	6.3345 mL
10 mM	0.3167 mL	1.5836 mL	3.1673 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.08 mg/mL (6.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (6.59 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AZD4635 (HTL1071) is a potent, selective and orally active adenosine A2A receptor (A2AR) antagonist. AZD4635 binds to human A2AR with a K_i of 1.7 nM and shows >30-fold selectivity over other adenosine receptors^[1].

IC₅₀ & Target

K_i: 1.7 nM (A2AR)^[1]

In Vitro

In the presence of 0.1, 1 and 10 μM adenosine, the IC₅₀s of AZD4635 for inhibition of cAMP production are 0.79, 10.0 and 142.9 nM, respectively^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Adv Sci (Weinh). 2022 Jan 22;e2104793.
- J Exp Clin Cancer Res. 2022 Oct 14;41(1):302.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Alexandra Borodovsky, et al. Abstract 5580: Preclinical pharmacodynamics and antitumor activity of AZD4635, a novel adenosine 2A receptor inhibitor that reverses adenosine mediated T cell suppression. AACR; Cancer Res 2017;77(13 Suppl):Abstract nr 5580.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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