Imaradenant

Cat. No.: HY-101980

CAS No.: 1321514-06-0

Molecular Formula: $C_{15}H_{11}ClFN_5$

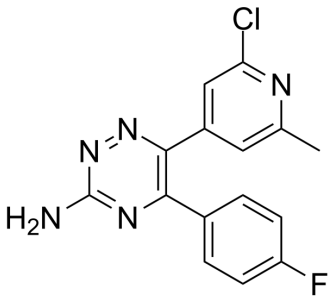
Molecular Weight: 315.73

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.

Preparing Stock Solutions

Solvent / Mass / Concentration	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

1. 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
2. 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].

IC_{50} & Target

Ki: 1.7 nM (A2AR)[1]

In Vitro

In the presence of 0.1, 1 and 10 μM adenosine, the IC_{50}s 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.
- Mater Design. 2023 Nov, 235, 112378.

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.

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