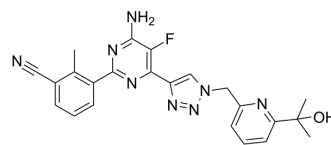


Adenosine receptor antagonist 2

Cat. No.:	HY-144064
CAS No.:	2703054-47-9
Molecular Formula:	C ₂₃ H ₂₁ FN ₈ O
Molecular Weight:	444.46
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (224.99 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2499 mL	11.2496 mL	22.4992 mL
	5 mM	0.4500 mL	2.2499 mL	4.4998 mL
	10 mM	0.2250 mL	1.1250 mL	2.2499 mL

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

BIOLOGICAL ACTIVITY

Description

Adenosine receptor antagonist 2 is an orally active A2a/A2b adenosine receptor antagonist with IC₅₀s of 1 nM and 3 nM, respectively. Adenosine receptor antagonist 2 has anti-tumor activity^[1].

IC₅₀ & Target

A2a adenosine receptor 1 nM (IC ₅₀)	A2b adenosine receptor 3 nM (IC ₅₀)
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In Vivo

Adenosine receptor antagonist 2 (compound L-1; po; 10, 30, 100 mg/kg; twice a day for 22 days) inhibits tumor growth in female C57BL / 6mice mice with MC38(#22)-hpd-L1 cells^[1].

Adenosine receptor antagonist 2 (iv; 2 mg/kg) has a CL_z of 14.7 mL/min·kg and an AUC of 2252 h·ng/mL. Adenosine receptor antagonist 2 (po; 10 mg/kg) has a C_{max} of 8730 ng/mL in adult male ICR mice (weight 25-40g)^[1].

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

REFERENCES

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

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