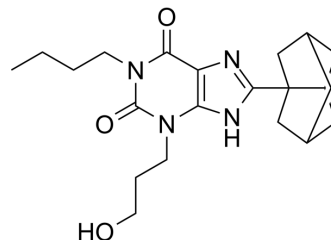


PSB36

Cat. No.:	HY-103175		
CAS No.:	524944-72-7		
Molecular Formula:	C ₂₁ H ₃₀ N ₄ O ₃		
Molecular Weight:	386.49		
Target:	Adenosine Receptor		
Pathway:	GPCR/G Protein		
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 : ≥ 20 mg/mL (51.75 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.5874 mL	12.9369 mL	25.8739 mL
	5 mM		0.5175 mL	2.5874 mL	5.1748 mL
	10 mM		0.2587 mL	1.2937 mL	2.5874 mL

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

BIOLOGICAL ACTIVITY

Description

PSB36 is a potent and selective antagonist of adenosine A₁ receptor, with K_is 0.12 nM, 187 nM, 552 nM, 2300 nM, and 6500 nM for rA₁, hA_{2B}, rA_{2A}, hA₃ and rA₃ receptors respectively. PSB36 can be used for the research of hyperalgesia^{[1][2]}.

IC₅₀ & Target

rA ₁ 0.12 nM (K _i)	hA _{2B} 187 nM (K _i)	rA _{2A} 552 nM (K _i)	hA ₃ 2300 nM (K _i)
rA ₃ 6500 nM (K _i)			

REFERENCES

[1]. Abo-Salem OM, et, al. Antinociceptive effects of novel A_{2B} adenosine receptor antagonists. J Pharmacol Exp Ther. 2004 Jan;308(1):358-66.

[2]. Bilkei-Gorzo A, et, al. Adenosine receptor subtype-selective antagonists in inflammation and hyperalgesia. Naunyn Schmiedebergs Arch Pharmacol. 2008 Mar;377(1):65-76.

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

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