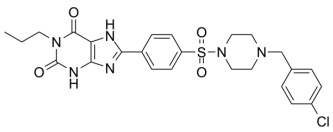
PSB-0788

Cat. No.:	HY-103165
CAS No.:	1027513-54-7
Molecular Formula:	$C_{25}H_{27}ClN_6O_4S$
Molecular Weight:	543.04
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PSB-0788 is a new selective high-affinity A_{2B} antagonist with IC_{50} value of 3.64 nM and K_i value of 0.393 nM, respectively. PSB-0788 can be used for the research for chronic inflammatory lung diseases[1].
IC_{50} & Target	IC50: 3.64 nM (A_{2B}AdoR)[1]. Ki: 0.393 nM (human, A_{2B}); >1000 nM (A3 human recombinant); 333 nM (A2A human recombinant); 1730 nM (A2A rat brain striatal membranes); 2240 nM (A1 human recombinant); 386 nM (A1 rat brain cortical membranes))[1].
In Vitro	PSB-0788 (compound 17) has high potency at the A_{2B}AdoR with IC_{50} value of 3.64 nM[1]. PSB-0788 has good profile of affinity and selectivity (K_i: 0.393 nM (A2B human recombinant); >1000 nM (A3 human recombinant); 333 nM (A2A human recombinant); 1730 nM (A2A rat brain striatal membranes); 2240 nM (A1 human recombinant); 386 nM (A1 rat brain cortical membranes))[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Thomas Borrmann, et al. 1-alkyl-8-(piperazine-1-sulfonyl)phenylxanthines: development and characterization of adenosine A2B receptor antagonists and a new radioligand with subnanomolar affinity and subtype specificity. J Med Chem. 2009 Jul 9;52(13):3994-4006.

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