A2A receptor antagonist 2

Cat. No.:	HY-144672	
CAS No.:	2767206-20-0	
Molecular Formula:	C ₂₅ H ₂₈ FN ₇ O ₃	NH ₂
Molecular Weight:	493.53	
Target:	Adenosine Receptor	
Pathway:	GPCR/G Protein	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

	ITV				
Description	A2A receptor antagonist 2 (of 8.3 nM ^[1] .	Compound 57) is a potent, highly selective adenosine A_{2A} receptor ($A_{2A}R$) antagonist with an IC ₅₀			
IC ₅₀ & Target	A2AR 8.3 nM (IC ₅₀)				
In Vitro	A2A receptor antagonist 2 (ethylcarboxamidoadenosir A2A receptor antagonist 2 e HCT116 cells and MC38 cell MCE has not independently Western Blot Analysis ^[1]	Compound 57) shows potent antagonistic activity in the presence of a high level of NECA (5'-N- ne, an A _{2A} R agonist) ^[1] . Inhances the activation and effector function of T cells, with no obvious cytotoxicity toward the s ^[1] . In confirmed the accuracy of these methods. They are for reference only.			
	Cell Line:	Jurkat T cells			
	Concentration:	10 μΜ			
	Incubation Time:	Overnight			
	Result:	Increased IL-2 production in the presence of NECA			
	Cell Cytotoxicity Assay ^[1]				
	Cell Line:	HCT116 and Jurkat T cells			
	Concentration:	10 μΜ			
	Incubation Time:	48 h			
	Result:	Completely reversed NECA's suppression of the cytotoxic function of Jurkat T cells.			
In Vivo	A2A receptor antagonist 2 (intraperitoneal (IP) and per MCE has not independently	Compound 57) shows reasonable intravenous (IV) exposure and low bioavailabilities of ros (PO) ^[1] . r os (PO) ^[1] . r confirmed the accuracy of these methods. They are for reference only.			

www.MedChemExpress.com

Product Data Sheet



Animal Model:	C57BL/6 mice ^[1]				
Dosage:	2 or 10 mg/kg				
Administration:	Intraperitoneal, intravenous or oral administration (Pharmacokinetic Analysis)				
Result:	PK profiles of A2A receptor antagonist 2 (n = 3) ^[1]				
	Parameters				
	Dosing Route	IV (2 mg/kg)	PO (10 mg/kg)	IP (10mg/kg	
	C _{max} (ng/mL)	1091 ± 129 ^a	106 ± 33.0	41.8 ± 2.75	
	AUC _{0-last} (ng/mL*h)	767 ± 107	145 ± 25.9	812 ± 12.0	
	AUC _{0-t} (ng/mL*h)	764 ± 107	139 ± 25.9	444 ± 13.3	
	T _{1/2} (h)	2.05 ± 0.94	2.55 ± 2.39	17.6 ± 0.68	
	F (%)	/	3.78%	11.6%	
	^a This value means Co	- 1091 + 129 ng/ml			

REFERENCES

[1]. Fazhi Yu, et al. Design, Synthesis, and Bioevaluation of 2-Aminopteridin-7(8H)-one Derivatives as Novel Potent Adenosine A2A Receptor Antagonists for Cancer Immunotherapy. J Med Chem. 2022 Mar 10;65(5):4367-4386.

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