Product Data Sheet

A2AR/A2BR antagonist 1

Cat. No.: HY-158057 Molecular Formula: $C_{24}H_{17}N_9$ Molecular Weight: 431.45

Target: Adenosine Receptor
Pathway: GPCR/G Protein

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	211 7 25 0	$A_{2A}R/A_{2B}R$ antagonist 1 (compound 7ai) has a dual antagonistic effect on $A_{2A}R/A_{2B}R$, with the IC ₅₀ values of 11.2 nM and 6.4 nM for $A_{2A}R$ and $A_{2B}R$, respectively. $A_{2A}R/A_{2B}R$ antagonist 1 promotes T cell-mediated cancer cell death ^[1] .	
IC ₅₀ & Target	t A2AR 11.2 nM (IC ₅₀)	A2BR 6.4 nM (IC ₅₀)	
In Vitro	profoundly promote the	$A_{2A}R/A_{2B}R$ antagonist 1 (compound 7ai) (0.1, 1, 10 μ M, 0-48 h) can reverse NECA (HY-103173)-mediated immunosuppression, profoundly promote the activation and killing ability of OT-I CTL cells, thereby exerting anti-cancer activity ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]	
	Cell Line:	Human Jurkat T cells	
	Concentration:	0.1, 1, 10 μΜ	
	Incubation Time:	0-48 h	

REFERENCES

[1]. Wang H, et al. Subtle Structural Changes across the Boundary between A2AR/A2BR Dual Antagonism and A2BR Antagonism: A Novel Class of 2-Aminopyrimidine-Based Derivatives. J Med Chem. 2024 Mar 28;67(6):5075-5092.

immunosuppressive molecules (PD-1 and TIM-3).

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

Tel: 609-228-6898

Result:

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Almost completely abolished NECA (HY-103173)-induced upregulation of expression of

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA