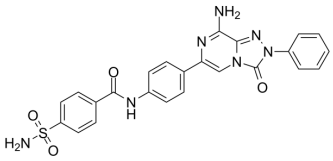
hA2A/hCA XII modulator 1

Cat. No.:	HY-146979
CAS No.:	2548963-55-7
Molecular Formula:	$C_{24}H_{19}N_7O_4S$
Molecular Weight:	501.52
Target:	Adenosine Receptor; Carbonic Anhydrase
Pathway:	GPCR/G Protein; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	hA2A/hCA XII modulator 1 (compound 14), a triazolopirazine, is a potent hA_{2A} adenosine receptor ($hA_{2A}AR$) antagonist with K_is of 6.4 nM, 4.819 μM, >30 μM for $hA_{2A}AR$, hA_1AR, hA_3AR, respectively. hA2A/hCA XII modulator 1 is a potent human carbonic anhydrase XII (hCA XII) inhibitor with K_is of 6.2 nM, 46 nM, 466 nM, 8.351 μM for hCA XII, hCA II, hCA IX and hCA I, respectively. hA2A/hCA XII modulator 1 has the potential for cancer research[1].		
IC_{50} & Target	$hA_{2A}AR$ 6.4 nM (Ki)	hA_1AR 4.819 μM (Ki)	hA_3 >30 μM (Ki)

REFERENCES

[1]. Costanza Ceni, et al. Discovery of first-in-class multi-target adenosine A 2A receptor antagonists-carbonic anhydrase IX and XII inhibitors. 8-Amino-6-aryl-2-phenyl-1,2,4-triazolo [4,3-a]pyrazin-3-one derivatives as new potential antitumor agents. Eur J Med Chem. 2020 Sep 1;201:112478.

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