

## A2AAR antagonist 4

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	A2AAR antagonist 4 is an orally active antagonist of the A2A adenosine receptor (A2AAR) with a $K_i$ value of 0.36 nM and a $K_B$ value of 1 nM in humans. At a concentration of 10 $\mu$ M, it fully inhibits both human A2AAR and human A2bAR. A2AAR antagonist 4 is applicable in cancer research, such as studies involving MC38 tumors.
Targets(IC50)	Adenosine Receptor
In vitro	A2AAR antagonist 4 (Compound 4d) at a concentration of 10 $\mu$ M completely inhibits hA2A AR, hA2B AR, and hA3 AR in the CHO-A2A cell line. Additionally, A2AAR antagonist 4, within the range of 0.1-1000 nM, restores IL-2 secretion in PBMC cells by fully displacing NECA, with an $EC_{50}$ value of 2.06 nM.
In vivo	Compound 4d, an A2AAR antagonist, significantly inhibits tumor growth in MC38 tumor-bearing mice when administered at 100 mg/kg orally or 50 mg/kg via intraperitoneal injection, twice daily for 14 days.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286

E\_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481