

Product Name : 2,5-Dideoxyadenosine

Synonyms : ——

Cat No. : M22179

CAS Number : 6698-26-6

Molecular Formula : C10H13N5O2

Formula Weight : 235.24

Chemical Name : ----

2',5'-Dideoxyadenosine is a potent and non-competitive adenylyl cyclase inhibitor via binding the P-site (IC50: 3 μ M).2',5'-Dideoxyadenosine (20-150 mM), like adenosine, dependently and reversibly inhibits the positive inotropic and chronotropic

effect of beta-adrenergic stimulation with isoproterenol (8-54 pmol) up to 70% and 50%, respectively [2]. 2',5'-

Description

: Dideoxyadenosine (10 μM, 30 min) reduces cAMP production and blocks the phosphorylation of GluA1 at Ser845 induced by carbachol (CCh). 2',5'-Dideoxyadenosine (10 μM, 30 min) blocks CCh-induced increase of phosphorylation of Akt and

attenuates CCh-induced phosphorylation of Ser2448 [3].2',5'-Dideoxyadenosine (0.1 mg/kg; i.p.; 15 min pre-treated) fully

inhibits the natriuretic, diuretic and K+ and Cl- sparing effect of FrEtOAc in rats.

Pathway : Others

Target : Other Targets

Receptor : Adenylyl cyclase (AC)

Solubility : —

 $\textbf{SMILES} \hspace{1.5cm} : \hspace{.1cm} C[C@H]1O[C@H](C[C@@H]1O)n1cnc2c(N)ncnc12$

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Bushfield M, et al. Tissue levels, source, and regulation of 3'-AMP: an intracellular inhibitor of adenylyl cyclases. Mol Pharmacol. 1990 Dec;38(6):848-53.