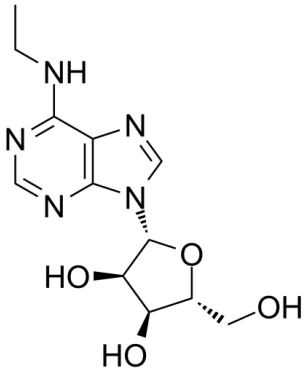
Data Sheet

Product Name:	N6-Ethyladenosine
Cat. No.:	CS-0092591
CAS No.:	14357-08-5
Molecular Formula:	C12H17N5O4
Molecular Weight:	295.29
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Solubility:	DMSO : ≥ 83.33 mg/mL (282.20 mM)



BIOLOGICAL ACTIVITY:

N6-Ethyladenosine is an adenosine derivative, acts as a **Adenosine receptor** agonist, with **K_i**s of 4.9 and 4.7 nM for hA_1AR and hA_3AR, respectively[1]. IC50 & Target: Ki: 4.9 nM (hA_1AR), 4.7 nM (hA_3AR)[1] **In Vitro:** N6-Ethyladenosine (Compound 28) exhibits more selectivity at hA_1AR and hA_3AR over hA_2AR (K_i, 8900±770 nM)[1].

References:

[1]. Kimand SK, et al. Three-dimensional quantitative structure-activity relationship of nucleosides acting at the A3 adenosine receptor: analysis of binding and relative efficacy. J Chem Inf Model. 2007 May-Jun;47(3):1225-33. Epub 2007 Mar 6.

CAIndexNames:

Adenosine, N-ethyl-

SMILES:

OC[C@@H]1[C@H]([C@H]([C@H](N2C=NC3=C2N=CN=C3NCC)O1)O)O

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

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