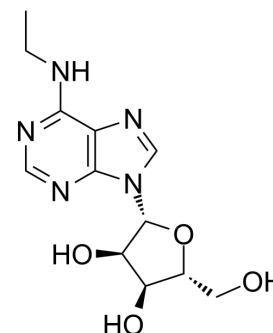


N6-Ethyladenosine

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-111809 | | |
| CAS No.: | 14357-08-5 | | |
| Molecular Formula: | C ₁₂ H ₁₇ N ₅ O ₄ | | |
| Molecular Weight: | 295.29 | | |
| Target: | Adenosine Receptor | | |
| Pathway: | GPCR/G Protein | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 83.33 mg/mL (282.20 mM)
 * "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 3.3865 mL | 16.9325 mL | 33.8650 mL |
| | 5 mM | 0.6773 mL | 3.3865 mL | 6.7730 mL |
| | 10 mM | 0.3387 mL | 1.6933 mL | 3.3865 mL |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.08 mg/mL (7.04 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (7.04 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (7.04 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N6-Ethyladenosine is an adenosine derivative, acts as a Adenosine receptor agonist, with K_is of 4.9 and 4.7 nM for hA₁AR and hA₃AR, respectively^[1].

IC₅₀ & Target

K_i: 4.9 nM (hA₁AR), 4.7 nM (hA₃AR)^[1]

In Vitro

N6-Ethyladenosine (Compound 28) exhibits more selectivity at hA₁AR and hA₃AR over hA₂AR (K_i, 8900±770 nM)^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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

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