ANR94

Cat. No.: HY-103162

CAS No.: 634924-89-3

Molecular Formula: $C_9H_{13}N_5O$

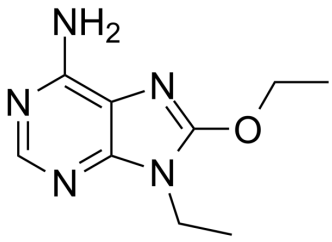
Molecular Weight: 207.23

Target: Adenosine Receptor

Pathway: GPCR/G Protein

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (241.28 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.8256 mL	24.1278 mL	48.2556 mL
	5 mM	0.9651 mL	4.8256 mL	9.6511 mL
	10 mM	0.4826 mL	2.4128 mL	4.8256 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (12.06 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (12.06 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (12.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ANR94 is a potent and selective adenosine A_{2A} receptor ($AA_{2A}R$) antagonist with an K_i of 46 nM for $hAA_{2A}R$. ANR94 has the potential for the research of Parkinson's disease[1][2].

IC_{50} & Target

A2AR
46 nM (Ki, human)

REFERENCES

[1]. Volpini R, et al. Adenosine A2A receptor antagonists: new 8-substituted 9-ethyladenines as tools for in vivo rat models of Parkinson's disease. ChemMedChem. 2009;4(6):1010-1019.

[2]. Micioni Di Bonaventura MV, et al. Regulation of adenosine A2A receptor gene expression in a model of binge eating in the amygdaloid complex of female rats. J Psychopharmacol. 2019;33(12):1550-1561.

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