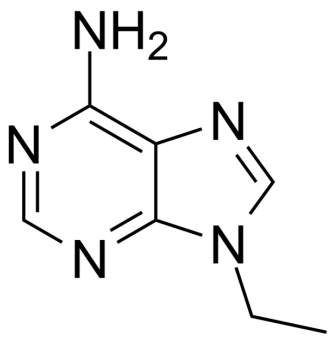
9-Ethyladenine

Cat. No.:	HY-119413
CAS No.:	2715-68-6
Molecular Formula:	$C_7H_9N_5$
Molecular Weight:	163.18
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (612.82 mM; Need ultrasonic)
DMSO : 62.5 mg/mL (383.01 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	6.1282 mL	30.6410 mL	61.2820 mL
	5 mM	1.2256 mL	6.1282 mL	12.2564 mL
	10 mM	0.6128 mL	3.0641 mL	6.1282 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 33.33 mg/mL (204.25 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 3 mg/mL (18.38 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 3 mg/mL (18.38 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 3 mg/mL (18.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

9-Ethyladenine is a partially effective inhibitor of APRT (adenine phosphoribosyltransferase)[1].

IC_{50} & Target

APRT[1]

REFERENCES

[1]. Edamura K, et al. No self-injurious behavior was found in HPRT-deficient mice treated with 9-ethyladenine. Pharmacol Biochem Behav. 1998 Oct;61(2):175-9.

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

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