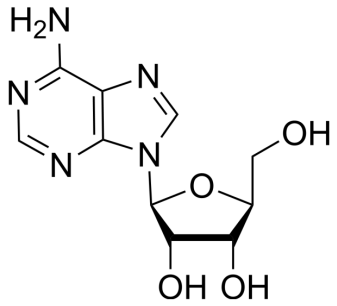
L-Adenosine

Cat. No.:	HY-103237
CAS No.:	3080-29-3
Molecular Formula:	$C_{10}H_{13}N_5O_4$
Molecular Weight:	267.24
Target:	Adenosine Deaminase
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

DMSO : 50 mg/mL (187.10 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.7420 mL	18.7098 mL	37.4195 mL
	5 mM	0.7484 mL	3.7420 mL	7.4839 mL
	10 mM	0.3742 mL	1.8710 mL	3.7420 mL

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

BIOLOGICAL ACTIVITY

Description

L-Adenosine is a metabolically stable enantiomeric analog and also is a potential probe. L-Adenosine has weakly inhibitory adenosine deaminase (ADA) activity with an K_i value of 385 μM. L-Adenosine can be used for the research of adenosine uptake and accumulation[1].

IC_{50} & Target

Ki: 385 μM (ADA)[1]

In Vitro

L-Adenosine (10-10,000 μM) weakly inhibits rat brain adenosine deaminase (ADA) activity with an K_i value of 385 μM[1].

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

REFERENCES

[1]. J G Gu, et al. L-[3H]adenosine, a new metabolically stable enantiomeric probe for adenosine transport systems in rat brain synaptoneurosomes. J Neurochem. 1991 Feb;56(2):548-52.

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

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