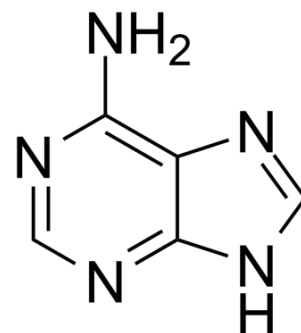


Adenine

Cat. No.:	HY-B0152		
CAS No.:	73-24-5		
Molecular Formula:	C ₅ H ₅ N ₅		
Molecular Weight:	135.13		
Target:	DNA/RNA Synthesis; Endogenous Metabolite		
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease		
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 : 20 mg/mL (148.01 mM; Need ultrasonic)
 1M HCl : 20 mg/mL (148.01 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		7.4003 mL	37.0014 mL	74.0028 mL
	5 mM		1.4801 mL	7.4003 mL	14.8006 mL
	10 mM		0.7400 mL	3.7001 mL	7.4003 mL

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

BIOLOGICAL ACTIVITY

Description

Adenine (6-Aminopurine), a purine, is one of the four nucleobases in the nucleic acid of DNA. Adenine acts as a chemical component of DNA and RNA. Adenine also plays an important role in biochemistry involved in cellular respiration, the form of both ATP and the cofactors (NAD and FAD), and protein synthesis^{[1][2][3]}.

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- J Appl Polym Sci. 2021 Apr 16.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. ORO J, et al. Synthesis of purines under possible primitive earth conditions. I. Adenine from hydrogen cyanide. Arch Biochem Biophys. 1961 Aug;94:217-27.
- [2]. Griffiths AJF, et al. An Introduction to Genetic Analysis. 7th edition. New York: W. H. Freeman; 2000. Structure of DNA.
- [3]. Reader V. The assay of vitamin B(4). Biochem J. 1930;24(6):1827-31.
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Caution: Product has not been fully validated for medical applications. For research use only.

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