Adenine hemisulfate

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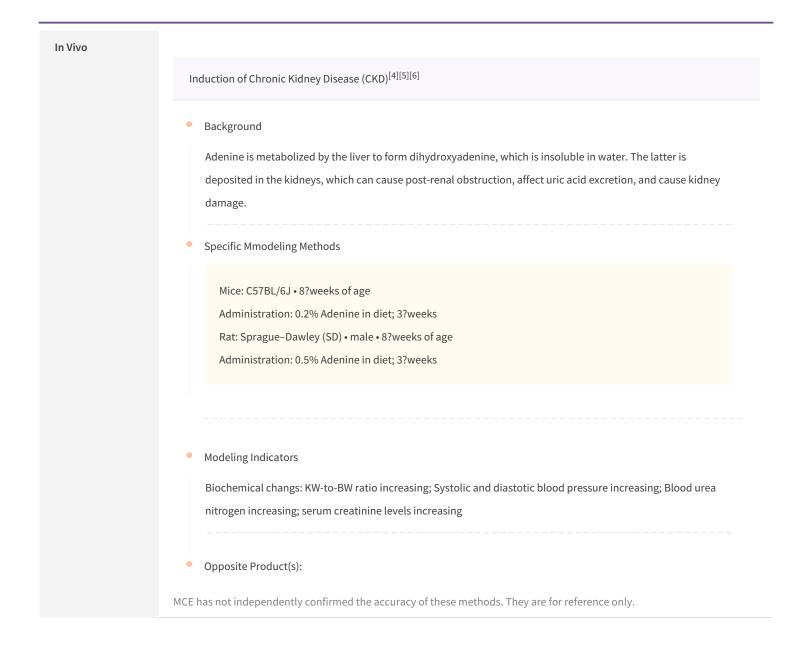
Cat. No.:	HY-B0152B		NH ₂
CAS No.:	321-30-2		N
Molecular Formula:	C ₅ H ₅ N ₅ .1/2H ₂ SO ₄		
Molecular Weight:	184.17		$N^{\prime} N^{\prime}$
Target:	DNA/RNA Synthesis; Endogenous Metabolite		
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease		O
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	1/2	HO-S-OH Ö

SOLVENT & SOLUBILITY

H ₂ O:5	0, (DMSO : 100 mg/mL (542.98 mM; Need ultrasonic) H ₂ O : 5 mg/mL (27.15 mM; ultrasonic and heat to 50°C)					
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	5.4298 mL	27.1488 mL	54.2977 mL		
		5 mM	1.0860 mL	5.4298 mL	10.8595 mL		
		10 mM	0.5430 mL	2.7149 mL	5.4298 mL		
	Please refer to the so	lubility information to select the ap	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (13.57 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.57 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.57 mM); Clear solution						
		4. Add each solvent one by one: PBS Solubility: 2 mg/mL (10.86 mM); Clear solution; Need ultrasonic and warming and heat to 60°C					

BIOLOGICAL ACTIV	ІТҮ			
Description	Adenine hemisulfate (6-Aminopurine hemisulfate), a purine, is one of the four nucleobases in the nucleic acid of DNA. Adenine hemisulfate acts as a chemical component of DNA and RNA. Adenine hemisulfate 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]			
IC ₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite		

Product Data Sheet



CUSTOMER VALIDATION

- Phytomedicine. 2022 Mar 21;100:154067.
- Talanta. 2023 Sep 6, 125171.
- Molecules. 2023 Apr 11, 28(8), 3375.
- Pharmaceuticals. 2023, 16(3), 361.
- Biosci Rep. 2021 Oct 29;41(10):BSR20211598.

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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.

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

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