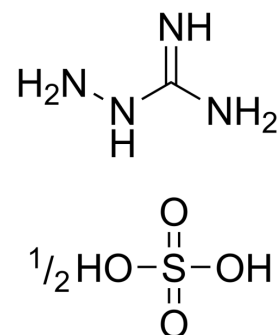


Aminoguanidine hemisulfate

Cat. No.:	HY-W020772
CAS No.:	996-19-0
Molecular Formula:	CH ₆ N ₄ ·1/2H ₂ O ₄
Molecular Weight:	123.13
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
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

H₂O : 100 mg/mL (812.15 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		8.1215 mL	40.6075 mL	81.2150 mL
	5 mM		1.6243 mL	8.1215 mL	16.2430 mL
	10 mM		0.8121 mL	4.0607 mL	8.1215 mL

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

BIOLOGICAL ACTIVITY

Description

Aminoguanidine hemisulfate is an inhibitor of NOS and ROS. Aminoguanidine hemisulfate abolishes ANE-induced ROS production in vitro. Aminoguanidine hemisulfate is used for cancer research^[1].

IC₅₀ & Target

IC₅₀: ROS, NOS^[1]

REFERENCES

- [1]. You-Ting Zhu, et al. Effects of L-arginine on Nitric Oxide Synthesis and Larval Metamorphosis of *Mytilus coruscus*. *Genes* (Basel). 2023 Feb 9;14(2):450.
- [2]. Po-Li Wei, et al. Areca nut extract (ANE) inhibits the progression of hepatocellular carcinoma cells via activation of ROS production and activation of autophagy. *Int J Med Sci*. 2021 Aug 9;18(15):3452-3462.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA