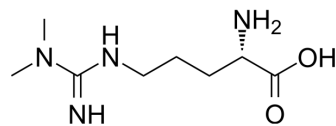


Asymmetric dimethylarginine

Cat. No.:	HY-113216
CAS No.:	30315-93-6
Molecular Formula:	C ₈ H ₁₈ N ₄ O ₂
Molecular Weight:	202.25
Target:	Endogenous Metabolite; NO Synthase
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (494.44 mM; adjust pH to 2-3 with HCl)					
	DMSO : 100 mg/mL (494.44 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		4.9444 mL	24.7219 mL	49.4438 mL
5 mM			0.9889 mL	4.9444 mL	9.8888 mL	
10 mM		0.4944 mL	2.4722 mL	4.9444 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (494.44 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Asymmetric dimethylarginine is an endogenous inhibitor of nitric oxide synthase (NOS), and functions as a marker of endothelial dysfunction in a number of pathological states.
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	Asymmetric dimethylarginine is an endogenous inhibitor of nitric oxide synthase (NOS), and functions as a marker of endothelial dysfunction in a number of pathological states. Asymmetric dimethylarginine (ADMA) is elevated in HIV-1 infection ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hudson CL, et al. The cardiovascular risk marker asymmetric dimethylarginine is elevated in asymptomatic, untreated HIV-1 infection and correlates with markers of immune activation and disease progression. *Ann Clin Biochem*. 2014 Sep;51(Pt 5):568-75.

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

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