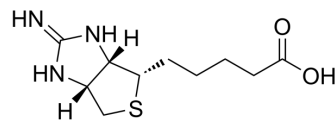


2-Iminobiotin

Cat. No.:	HY-118700		
CAS No.:	13395-35-2		
Molecular Formula:	C ₁₀ H ₁₇ N ₃ O ₂ S		
Molecular Weight:	243.33		
Target:	NO Synthase		
Pathway:	Immunology/Inflammation		
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 : 12.5 mg/mL (51.37 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.1096 mL	20.5482 mL	41.0965 mL
	5 mM	0.8219 mL	4.1096 mL	8.2193 mL
	10 mM	0.4110 mL	2.0548 mL	4.1096 mL

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

BIOLOGICAL ACTIVITY

Description

2-Iminobiotin (Guanidinobiotin) is a biotin (vitamin H or B7) analog. 2-Iminobiotin is a reversible nitric oxide synthases inhibitor with K_s of 21.8 and 37.5 μM for murine iNOS and rat n-cNOS, respectively^[1]. 2-Iminobiotin superimposes on hypothermia protects human neuronal cells from hypoxia-induced cell damage^[2].

IC₅₀ & Target

iNOS

In Vitro

Application of low concentrations of 2-Iminobiotin (2-IB; 10 ng/mL and 30 ng/mL) superimposed on hypothermia abrogates the hypoxia-induced lactate dehydrogenase (LDH) increase, resulting in LDH levels that were not different from the normoxia control^[1].

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

REFERENCES

[1]. Sup SJ, et al. 2-Iminobiotin is an inhibitor of nitric oxide synthases. *Biochem Biophys Res Commun*. 1994 Oct 28;204(2):962-8.

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

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