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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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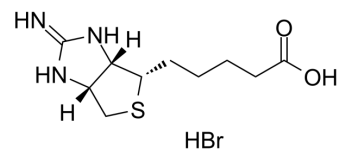
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2-Iminobiotin hydrobromide

Cat. No.:	HY-118700A
CAS No.:	76985-52-9
Molecular Formula:	C ₁₀ H ₁₈ BrN ₃ O ₂ S
Molecular Weight:	324.24
Target:	NO Synthase
Pathway:	Immunology/Inflammation
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	DMSO : 125 mg/mL (385.52 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.0841 mL	15.4207 mL	30.8414 mL
		5 mM	0.6168 mL	3.0841 mL	6.1683 mL
	10 mM	0.3084 mL	1.5421 mL	3.0841 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.42 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.42 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.42 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	2-Iminobiotin hydrobromide (Guanidinobiotin hydrobromide) is a biotin (vitamin H or B7) analog. 2-Iminobiotin hydrobromide is a reversible nitric oxide synthases inhibitor with K _i s of 21.8 and 37.5 μM for murine iNOS and rat n-cNOS, respectively ^[1] . 2-Iminobiotin hydrobromide superimposes on hypothermia protects human neuronal cells from hypoxia-induced cell damage ^[2] .
IC₅₀ & Target	NO synthases ^[1]
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.

[2]. Zitta K, et al. 2-Iminobiotin Superimposed on Hypothermia Protects Human Neuronal Cells from Hypoxia-Induced Cell Damage: An in Vitro Study. *Front Pharmacol*. 2018 Jan 11;8:971.

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

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