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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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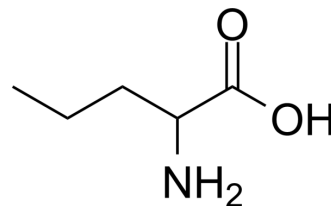
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DL-Norvaline

Cat. No.:	HY-W010510	
CAS No.:	760-78-1	
Molecular Formula:	C ₅ H ₁₁ NO ₂	
Molecular Weight:	117.15	
Target:	Endogenous Metabolite; Arginase	
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (426.80 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	8.5361 mL	42.6803 mL	85.3606 mL
		5 mM	1.7072 mL	8.5361 mL	17.0721 mL
10 mM		0.8536 mL	4.2680 mL	8.5361 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 20 mg/mL (170.72 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	DL-Norvaline, a derivative of L-norvaline, L-norvaline is a non-competitive inhibitor of arginase.
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	DL-Norvaline, a derivative of L-norvaline ^[1] , L-norvaline is a non-competitive inhibitor of arginase ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay	A murine macrophage cell line (RAW264.7) is used throughout the study, RAW264.7 cells are induced by A.
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actinomycetemcomitans-lipopolysaccharide, cells are incubated with various concentrations of L-norvaline or DL-norvaline (0.01, 0.1, 1, 10 mM) and 10 µg of A. actinomycetemcomitans-lipopolysaccharide. In other experiments, cells are incubated with antimurine CD14 or antimurine toll-like receptor 2 and 4 antibody at room temperature for 1 h, washed three times, and then stimulated with 10 µg of A. actinomycetemcomitans-lipopolysaccharide. All experiments are repeated three times, each consisting of triplicate cultures^[1].

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

REFERENCES

[1]. Sosroseno W, et al. Arginase activity in a murine macrophage cell line (RAW264.7) stimulated with lipopolysaccharide from Actinobacillus actinomycetemcomitans. Oral Microbiol Immunol. 2006 Jun;21(3):145-50.

[2]. El-Bassossy HM, et al. Arginase inhibition alleviates hypertension associated with diabetes: effect on endothelial dependent relaxation and NO production. Vascul Pharmacol. 2012 Nov-Dec;57(5-6):194-200.

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

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