
Product Data Sheet

Product Name: H-DL-Nva-OH

Cat. No.: GA10879

Chemical Properties

Cas. No. 760-78-1

Chemical Name 2-aminopentanoic acid

SMILES CCCC(C(=O)O)NFormula $C_5H_{11}NO_2$

M.Wt 117.1

Solubility H_2O : 50 mg/mL (426.80 mM; Need ultrasonic)

Storage Store at RT

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Protocol****Cell experiment:**

A murine macrophage cell line (RAW264.7) is used throughout the study, RAW264.7 cells are induced by A. 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].

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

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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.

Background

DL-Norvaline, a derivative of L-norvaline, L-norvaline is a non-competitive inhibitor of arginase.

DL-Norvaline, a derivative of L-norvaline[1], L-norvaline is a non-competitive inhibitor of arginase[2].

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.

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[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.

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