

Product Data Sheet

Product Name: H-HoArg-OH

Cat. No.: GA10611

Chemical Properties

Cas. No. 156-86-5

Chemical Name (2S)-2-amino-6-(diaminomethylideneamino)hexanoic acid

SMILES C(CCN=C(N)N)CC(C(=O)O)N

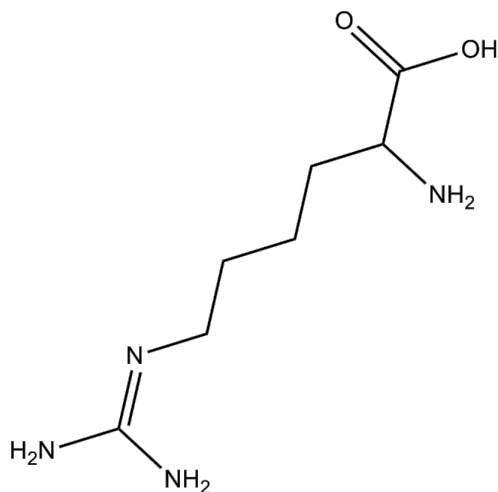
Formula $C_7H_{16}N_4O_2$ M.Wt 188.2

Solubility H_2O : 100 mg/mL (531.26 mM; Need ultrasonic); DMSO : < 1 mg/mL (insoluble or slightly soluble) Storage Store at 2-8°C

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



Background

H-HoArg-OH, a homologue arginine, is a strong inhibitor of human bone and liver alkaline phosphatase.

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

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It is found that H-HoArg-OH (L-homoarginine), a homologue of arginine, is a strong inhibitor of human bone and liver alkaline phosphatase while it has virtually no effect on intestinal and placental alkaline phosphatases unlike H-HoArg-OH which inhibits intestinal and placental alkaline phosphatases but not the liver and bone enzymes. These four tissues mentioned are the major contributors to the serum alkaline phosphatase[1]. It is also indicated that low levels of the endogenous amino acid H-HoArg-OH are linked to cardiovascular disease[2].

References:

- [1]. Fishman W, et al. L-homoarginine; an inhibitor of serum "bone and liver" alkaline phosphatase. Clin Chim Acta. 1970 Aug;29(2):339-41.
- [2]. Atzler D, et al. L-homoarginine and cardiovascular disease. Curr Opin Clin Nutr Metab Care. 2015 Jan;18(1):83-8.

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