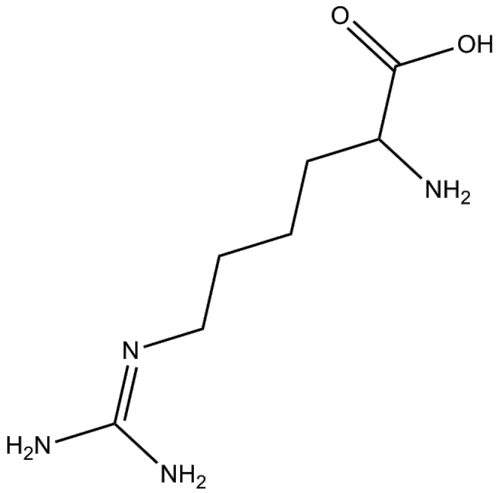
Product Data Sheet

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.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA