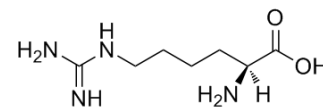


## H-HoArg-OH

Cat. No.:	HY-W008385		
CAS No.:	156-86-5		
Molecular Formula:	C <sub>7</sub> H <sub>16</sub> N <sub>4</sub> O <sub>2</sub>		
Molecular Weight:	188.23		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	H-HoArg-OH, a homologue arginine, is a strong inhibitor of human bone and liver <b>alkaline phosphatase</b> .	
<b>IC<sub>50</sub> &amp; Target</b>	Alkaline phosphatase	Human Endogenous Metabolite
<b>In Vitro</b>	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 <sup>[1]</sup> . It is also indicated that low levels of the endogenous amino acid H-HoArg-OH are linked to cardiovascular disease <sup>[2]</sup> .	

### 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.**

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