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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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H-HoArg-OH

Cat. No.: HY-W008385

CAS No.: 156-86-5

Molecular Formula: $C_7H_{16}N_4O_2$

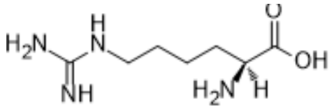
Molecular Weight: 188.23

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



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (531.26 mM; Need ultrasonic)

DMSO : 1 mg/mL (5.31 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	5.3126 mL	26.5632 mL	53.1265 mL
5 mM	1.0625 mL	5.3126 mL	10.6253 mL
10 mM	0.5313 mL	2.6563 mL	5.3126 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (531.26 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

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

IC_{50} & Target

Alkaline phosphatase | Human Endogenous Metabolite

In Vitro

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].

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

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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