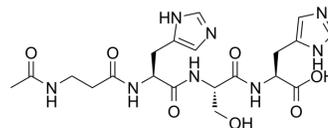


Acetyl tetrapeptide-5

Cat. No.:	HY-P0095
CAS No.:	820959-17-9
Molecular Formula:	C ₂₀ H ₂₈ N ₈ O ₇
Molecular Weight:	492.49
Sequence:	Ac-β-{Ala}-His-Ser-His-OH
Sequence Shortening:	Ac-β-{Ala}-HSH
Target:	Angiotensin-converting Enzyme (ACE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (50.76 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.0305 mL	10.1525 mL	20.3050 mL
5 mM	0.4061 mL	2.0305 mL	4.0610 mL
10 mM	0.2030 mL	1.0152 mL	2.0305 mL

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

BIOLOGICAL ACTIVITY

Description

Acetyl tetrapeptide-5 inhibits glycosylation and ACE-1 activity. Acetyl tetrapeptide-5 reduces edema and relieves vascular pressure by improving the vascular system and strengthening the skin under the eyes. Acetyl tetrapeptide-5 can be used in the research of Antioxidant, anti-aging skin care^{[1][2][3]}.

IC₅₀ & Target

ACE-1^[1]

In Vitro

Acetyl tetrapeptide-5 (100 µg/mL) inhibits angiotensin-converting enzyme 1 (ACE-1) activity^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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- [1]. Yun Wu, et al. Protective and Anti-Aging Effects of 5 Cosmeceutical Peptide Mixtures on Hydrogen Peroxide-Induced Premature Senescence in Human Skin Fibroblasts. *Skin Pharmacol Physiol*. 2021;34(4):194-202.
- [2]. Lijuan Zhang, et al. Cosmeceuticals and peptides. *Clin Dermatol*. 2009 Sep-Oct;27(5):485-94.
- [3]. Puig A , et al. "Eyeseryl® and Leuphasyl®: synthetic peptides as advanced cosmetic actives. *Cosmet Sci Technol* (2006): 164-75.
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Caution: Product has not been fully validated for medical applications. For research use only.

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