

Endothelin 1 (swine, human)

Cat. No.:	HY-P0202
CAS No.:	117399-94-7
Molecular Formula:	C ₁₀₉ H ₁₅₉ N ₂₅ O ₃₂ S ₅
Molecular Weight:	2491.9
Sequence:	Cys-Ser-Cys-Ser-Ser-Leu-Met-Asp-Lys-Glu-Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Trp (Disulfide bridge: Cys1-Cys15, Cys3-Cys11) CSCSSLMDKECVYFCHLDIIW (Disulfide bridge: Cys1-Cys15, Cys3-Cys11)
Sequence Shortening:	CSCSSLMDKECVYFCHLDIIW (Disulfide bridge: Cys1-Cys15, Cys3-Cys11)
Target:	Endothelin Receptor
Pathway:	GPCR/G Protein
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	H ₂ O : 0.99 mg/mL (0.40 mM; adjust pH to 2 with TFA)
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BIOLOGICAL ACTIVITY

Description	Endothelin 1 (swine, human) is a synthetic peptide with the sequence of human and swine Endothelin 1, which is a potent endogenous vasoconstrictor. Endothelin 1 acts through two types of receptors ET _A and ET _B ^[1] .	
IC ₅₀ & Target	ET _A	ET _B
In Vitro	Endothelin-1 (ET-1) is a potent endogenous vasoconstrictor, mainly secreted by endothelial cells. It acts through two types of receptors: ET _A and ET _B . Apart from a vasoconstrictive action, ET-1 causes fibrosis of the vascular cells and stimulates production of reactive oxygen species. It is claimed that ET-1 induces proinflammatory mechanisms, increasing superoxide anion production and cytokine secretion ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

CUSTOMER VALIDATION

- Sci Adv. 2022 Jul 29;8(30):eabn4408.
- Mol Med Rep. 2022 Mar;25(3):84.
- BMC Pulm Med. 2021 Jun 5;21(1):189.

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REFERENCES

[1]. Kowalczyk A, et al. The role of endothelin-1 and endothelin receptor antagonists in inflammatory response and sepsis. Arch Immunol Ther Exp (Warsz). 2015 Feb;63(1):41-52.

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

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