

Endothelin 1 (swine, human) (TFA)

Cat. No.:	HY-P0202A
Molecular Formula:	C ₁₁₁ H ₁₆₀ F ₃ N ₂₅ O ₃₄ S ₅
Molecular Weight:	2605.92
Sequence:	Cys-Ser-Cys-Ser-Ser-Leu-Met-Asp-Lys-Glu-Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Tr p (Disulfide bridge: Cys1-Cys15, Cys3-Cys11) CSCSSLMDKECVYFCHLDIIW (Disulfide bridge: Cys1-Cys15, Cys3-Cys11) (TFA salt)
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

H₂O : 50 mg/mL (19.19 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.3837 mL	1.9187 mL	3.8374 mL
	5 mM		0.0767 mL	0.3837 mL	0.7675 mL
	10 mM		0.0384 mL	0.1919 mL	0.3837 mL

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

BIOLOGICAL ACTIVITY

Description

Endothelin 1 (swine, human) (TFA) 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].

CUSTOMER VALIDATION

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

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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;63(1):41-52.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA