

Endothelin 1 (swine, human)

Chemical Properties

CAS No.:	117399-94-7
Formula:	C109H159N25O32S5
Molecular Weight:	2491.9
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Endothelin 1 acts through two types of receptors ETA and ETB. Endothelin 1 (swine, human) is a synthetic peptide with the sequence of human and swine Endothelin 1, which is a potent endogenous vasoconstrictor.
Targets(IC ₅₀)	ETA and ETB: None
In vitro	It acts through two types of receptors: ETA and ETB. 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. Endothelin-1 (ET-1) is a potent endogenous vasoconstrictor, mainly secreted by endothelial cells.

Solubility Information

Solubility	H2O: 50 mg/mL (20.07 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.401 mL	2.007 mL	4.013 mL
5 mM	0.08 mL	0.401 mL	0.803 mL
10 mM	0.04 mL	0.201 mL	0.401 mL
50 mM	0.008 mL	0.04 mL	0.08 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481