

Endothelin 1 (swine, human)

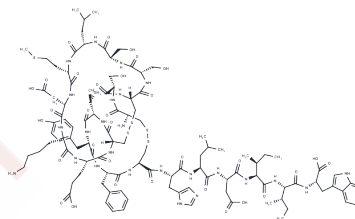
Chemical Properties

CAS No. : 117399-94-7

Formula: C109H159N25O32S5

Molecular Weight: 2491.9

Storage: Keep away from moisture, Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Endothelin 1 (swine, human) is a potent endogenous vasoconstrictor peptide released primarily by endothelial cells and acting through ETA and ETB receptors. Endothelin 1 (swine, human) mediates vascular smooth-muscle contraction, promotes fibrosis, stimulates reactive oxygen species production, and induces pro-inflammatory signaling, making it central to studies of vascular dysfunction, hypertension, and oxidative stress-associated pathology.
Targets(IC50)	Reactive Oxygen Species
In vitro	Endothelin-1 (ET-1), a potent endogenous vasoconstrictor primarily secreted by endothelial cells, operates via ETA and ETB receptors. Beyond its vasoconstrictive effect, ET-1 contributes to vascular cell fibrosis and prompts the generation of reactive oxygen species. Additionally, ET-1 is implicated in proinflammatory mechanisms by elevating superoxide anion output and cytokine release.

Solubility Information

Solubility	DMSO: ≥ 40 mg/mL, Sonication is recommended. H2O: 50 mg/mL (20.07 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4013 mL	2.0065 mL	4.013 mL
5 mM	0.0803 mL	0.4013 mL	0.8026 mL
10 mM	0.0401 mL	0.2007 mL	0.4013 mL
50 mM	0.008 mL	0.0401 mL	0.0803 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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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