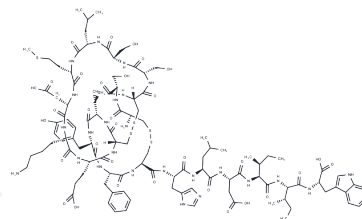


Endothelin 1 (swine, human)

Chemical Properties

CAS No. :	117399-94-7
Formula:	C109H159N25O32S5
Molecular Weight:	2491.9
Appearance:	no data available
Storage:	keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Endothelin 1 (swine, human), a synthetic peptide mirroring the sequence of both human and swine Endothelin 1, functions as a robust endogenous vasoconstrictor by interacting with two receptor types, ETA and ETB.
Targets(IC50)	Others
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	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.

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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