

Data Sheet

Product Name:	Endothelin 1 (swine, human)	
Cat. No.:	CS-7088	
CAS No.:	117399-94-7	
Molecular Formula:	C109H159N25O32S5	
Molecular Weight:	2491.90	CSCSSLMDKECVYFCHLDIIW(Disulfide bridge: Cys1-Cys15,Cys3-Cys11)
Target:	Endothelin Receptor	
Pathway:	GPCR/G Protein	
Solubility:	H2O : 50 mg/mL (20.07 mM; Need ultrasonic)	

BIOLOGICAL ACTIVITY:

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 ETA and ETB. IC50 & Target: ETA and ETB^[1] **In Vitro:** Endothelin-1 (ET-1) is a potent endogenous vasoconstrictor, mainly secreted by endothelial cells. 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 [1].

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.

CAIndexNames:

Endothelin 1 (swine)

SMILES:

[CSCSSLMDKECVYFCHLDIIW(Disulfide bridge: Cys1-Cys15,Cys3-Cys11)]

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

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