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DATASHEET

Endothelin 1 (human, porcine)

Product overview

Name	Endothelin 1 (human, porcine)
Cat No	HB3442
Biological description	Endothelin 1 is an endogenous neuropeptide which is secreted by endothelial cells. Endothelin 1 acts through the ET _A and ET _B receptors and is a potent vasoconstrictor. It has a range of biological actions.
Alternative names	ET-1, Edn1
Biological action	Peptide
Purity	>95%
Description	Endogenous vasoconstrictor neuropeptide

Solubility & Handling

Storage instructions	-20°C (desiccate)
Solubility overview	Soluble in water (1 mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	CSCSSLMDKECVYFCHLDIIW (Disulfide bridge between 1 - 15, 3 - 11)
Molecular Weight	2491.91
Chemical structure	
Molecular Formula	C ₁₀₉ H ₁₅₉ N ₂₅ O ₃₂ S ₅
Sequence (one letter)	CSCSSLMDKECVYFCHLDIIW
Sequence (three letter)	Cys-Ser-Cys-Ser-Ser-Leu-Met-Asp-Lys-Glu-Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Trp
Modifications	Disulfide bridge between 1 - 15, 3 - 11
CAS Number	117399-94-7
PubChem identifier	16133807
SMILES	CC[C@@H](C)[C@@H](C)(=O)N[C@@H]([C@@H](C)CC)C(=O)N[C@@H](CC1=CNC2=CC=CC=C21)C(=O)O)NC(=O)[C@H](CC(=O)O)NC(=O)[C@H](CC(C)C)NC(=O)[C@H](CC3=CNC=N3)NC(=O)[C@@H]4CSCC[C@@H](C(=O)N[C@H](C(=O)N[C@H]5CSCC[C@@H](C(=O)N[C@H](C(=O)N[C@H](C(=O)N[C@H](C(=O)N4)CC6=CC=CC=C6)CC7=CC=C(C=C7)O)C(C)C)NC(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@@H](NC5=O)CO)CO)CC(C)C)CCSC)CC(=O)O)CCCCN)CCC(=O)O)CO)N
InChiKey	ZUBDGKVDJUIMQQ-ZTNLKOGPSA-N
MDL number	MFCD00133305
Protein length	21

References

Endothelin-1: the yin and yang on vascular function.

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