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## DATASHEET

### Endothelin 1 (human, porcine)


#### Product overview

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

#### Solubility & Handling

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

#### Chemical Data

<b>Chemical name</b>	CSCSSLMDKECVYFCHLDIIW (Disulfide bridge between 1 - 15, 3 - 11)
<b>Molecular Weight</b>	2491.91
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>109</sub> H <sub>159</sub> N <sub>25</sub> O <sub>32</sub> S <sub>5</sub>
<b>Sequence (one letter)</b>	CSCSSLMDKECVYFCHLDIIW
<b>Sequence (three letter)</b>	Cys-Ser-Cys-Ser-Ser-Leu-Met-Asp-Lys-Glu-Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Trp
<b>Modifications</b>	Disulfide bridge between 1 - 15, 3 - 11
<b>CAS Number</b>	117399-94-7
<b>PubChem identifier</b>	16133807
<b>SMILES</b>	<chem>CC[C@@H](C)[C@@H](C(=O)N[C@@H]([C@@H](C)CC)C(=O)N[C@@H](CC1=CNC2=CC=CC=C2)1)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]4CSSC[C@@H](C(=O)N[C@@H](C(=O)N[C@@H]5CSSC[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](NC(=O)[C@@H](NC(=O)CO)CO)CC(C)C)CCSC)CC(=O)O)CCCCN)CCC(=O)O)CO)N</chem>
<b>InChiKey</b>	ZUBDGKVDJUIMQQ-ZTNLKOGPSA-N
<b>MDL number</b>	MFCD00133305
<b>Protein length</b>	21

#### References

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

Marasciulo et al (2006) Curr Med Chem 13(14)

**PubMedID** [16787211](#)

##### The role of endothelin-1 and endothelin receptor antagonists in inflammatory response and sepsis.

Kowalczyk et al (2015) Arch Immunol Ther Exp (Warsz) 63(1)

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[25288367](#)

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Houde et al (2016) Adv Pharmacol 77

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[27451097](#)

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