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DATASHEET

Endothelin 1 (human, porcine)


Product overview

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|-------------------------------|--|
| 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

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|-----------------------------|--|
| 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

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|--------------------------------|--|
| 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 | <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=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]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)[C@@H](NC(=O)CO)CO)CC(C)C)CCSC)CC(=O)O)CCCCN)CCC(=O)O)CO)N</chem> |
| InChiKey | ZUBDGKVDJUIMQQ-ZTNLKOGPSA-N |
| MDL number | MFCD00133305 |
| Protein length | 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)

PubMedID

[25288367](#)

Endothelin-1: Biosynthesis, Signaling and Vasoreactivity.

Houde et al (2016) Adv Pharmacol 77

PubMedID

[27451097](#)
