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DATASHEET

Endothelin 2 (human)

Product overview

Name Endothelin 2 (human)
Cat No HB3267
Biological description **Overview**

Endothelin 2 is an endogenous neuropeptide which has the same affinity as endothelin 1 (ET-1) for both the ET_A and ET_B receptors.

It tightly binds to smooth muscle ET_A receptors to causes potent, long-lasting vasoconstriction.

Uses & applications

It has been shown to have a key role in ovarian physiology and has also been implicated in immunology, cancer and the cardiovascular system.

Alternative names ET-2, Edn2, VIC
Biological action Peptide
Purity >95%
Description Vasoconstrictive 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 CSCSSWLDKECVYFCHLDIIW Disulfide bridge between 1 - 15, 3 - 11
Molecular Weight 2546.94
Chemical structure 
Molecular Formula C₁₁₅H₁₆₀N₂₆O₃₂S₄
Sequence (one letter) CSCSSWLDKECVYFCHLDIIW
Sequence (three letter) Cys-Ser-Cys-Ser-Ser-Trp-Leu-Asp-Lys-Glu-Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Trp
Modifications Disulfide bridge between 1 - 15, 3 - 11
CAS Number 123562-20-9
PubChem identifier 16133808
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=C2)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)CC8=CNC9=CC=CC=C9)CC(C)C)CC(=O)O)CCCCN)CCC(=O)O)CO)N
InChiKey MLFJHYIHIKEBTQ-IYRKOGFYSA-N
MDL number MFCD00133306
Protein length 21

References

Endothelin-2, the forgotten isoform: emerging role in the cardiovascular system, ovarian development, immunology and cancer

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Endothelin-1 and endothelin-2 initiate and maintain contractile responses by different mechanisms in rat mesenteric and cerebral arteries

Compeer MG *et al* (2013) Br J Pharmacol 170(6)

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The human endothelin family: three structurally and pharmacologically distinct isopeptides predicted by three separate genes

Inoue A *et al* (1989) Proc Natl Acad Sci U S A 86(8)

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