

Endothelin-1 (1-15), amide, human

## Chemical Properties

CAS No.:	TP2246
Formula:	C70H109N17O23S5
Molecular Weight:	1717.04
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Endothelin-1 is one of the three isoforms of endothelin (identified as ET-1, -2, -3) with varying regions of expression and binding to at least four known endothelin receptors, ETA, ETB1, ETB2 and ETC.
In vitro	Endothelins are the most potent vasoconstrictors known. In a healthy individual, a delicate balance between vasoconstriction and vasodilation is maintained by endothelin and other vasoconstrictors as well as nitric oxide, prostacyclin, and other vasodilators. The ubiquitous distribution of endothelin peptides and receptors implicates its involvement in a wide variety of physiological and pathological processes in the body. Among numerous diseases potentially occurring from endothelin dysregulation are several types of cancer, cerebral vasospasm following subarachnoid hemorrhage, arterial hypertension, and other cardiovascular disorder, pain mediation, type II diabetes, etc [2][3].

## Solubility Information

Solubility	1% acetic acid: Soluble H2O: Soluble ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.582 mL	2.912 mL	5.824 mL
5 mM	0.116 mL	0.582 mL	1.165 mL
10 mM	0.058 mL	0.291 mL	0.582 mL
50 mM	0.012 mL	0.058 mL	0.116 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Moulton KS, Heller E, Konerding MA et al. Angiogenesis inhibitors endostatin or TNP-470 reduce intimal neovascularization and plaque growth in apolipoprotein E-deficient mice. *Circulation*. 1999 Apr 6;99(13):1726-32.
2. O'Reilly MS, Boehm T, Shing Y et al. Endostatin: an endogenous inhibitor of angiogenesis and tumor growth. *Cell*. 1997 Jan 24;88(2):277-85.
3. Kisker O, Becker CM, Prox D et al. Continuous administration of endostatin by intraperitoneally implanted osmotic pump improves the efficacy and potency of therapy in a mouse xenograft tumor model. *Cancer Res*. 2001 Oct 15;61(20):7669-74.

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