

## Endothelin-1/EDN1 Protein, Rat (His-KSI)

Cat. No.:	HY-P71446
Synonyms:	Edn1; Endothelin-1; ET-1; Preproendothelin-1; PPET1
Species:	Rat
Source:	E. coli
Accession:	P22388 (C53-W73)
Gene ID:	24323
Molecular Weight:	Approximately 17.8 kDa

### PROPERTIES

AA Sequence	C S C S S L M D K E    C V Y F C H L D I I    W
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Endothelin-1 (Edn1) is a vasoconstrictor peptide derived from endothelial cells, acting through G-protein coupled receptors EDNRA and EDNRB. It likely functions as a ligand for these receptors, activating downstream signaling cascades involving PTK2B, BCAR1, BCAR3, and GTPases RAP1 and RHOA in glomerular mesangial cells. Furthermore, Endothelin-1 binds to the DEAR/FBXW7-AS1 receptor. This intricate interaction highlights its role in mediating various cellular responses, particularly in the regulation of vascular tone and mesangial cell function. The multifaceted actions of Endothelin-1 underscore its significance in vascular physiology and suggest its involvement in diverse cellular processes (
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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