

Endothelin-1/EDN1 Protein, Human (GST)

Cat. No.:	HY-P700460
Synonyms:	Preproendothelin-1 ; PPET1
Species:	Human
Source:	E. coli
Accession:	P05305 (C53-W73)
Gene ID:	1906
Molecular Weight:	29.5 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
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized EDNRB at 5 µg/mL can bind human EDN1 with a linear range of 37035-185619 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 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 ₂ 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, a vasoconstrictor peptide derived from the endothelium, serves as a probable ligand for G-protein coupled receptors EDNRA and EDNRB. Upon binding, it activates a signaling cascade involving PTK2B, BCAR1, BCAR3, and GTPases RAP1 and RHOA in glomerular mesangial cells. Additionally, Endothelin-1/EDN1 exhibits binding affinity for the DEAR/FBXW7-AS1 receptor, contributing to its diverse roles in cellular signaling and vascular regulation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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