



[Go to Product page](#)

Datasheet for ABIN7539311

## Endothelin 1 Protein (EDN1) (His tag)

### Overview

Quantity:	5 µg
Target:	Endothelin 1 (EDN1)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Endothelin 1 protein is labelled with His tag.

### Product Details

Purpose:	Endothelin-1/ET-1
Sequence:	MAPETA <sup>V</sup> LGA ELSAVGENGG EKPTSP <sup>P</sup> PWR LRRSKRCSCS SLMDKECVYF CHLDII <sup>V</sup> WNT PEHVVPYGLG SPRSKRALEN LLPTKATDRE NRCQCASQKD KKCWNFCQAG KELRAEDIME KDWN <sup>N</sup> HKKGK DCSKLGKKCI YQLV <sup>R</sup> RGRKI RRSSEEHLRQ TRSETMRNSV KSSFHDPK <sup>L</sup> K GKPSRERYVT HNRAHWLEHH HHHH
Characteristics:	Length (aa):204
Purity:	> 98 % by SDS-PAGE and visualized Coomassie stain

### Target Details

Target:	Endothelin 1 (EDN1)
Alternative Name:	Endothelin-1/ET-1 ( <a href="#">EDN1 Products</a> )
Background:	Preproendothelin-1, PPET-1, ET-1, EDN1, Endothelin-1 (ET-1) is a potent endogenous vasoconstrictor, mainly secreted by endothelial cells. ET-1 acts through two types of receptors:

## Target Details

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ETA and ETB. Apart from a vasoconstrictive action, ET-1 causes fibrosis of the vascular cells and stimulates production of reactive oxygen species. It is claimed that ET-1 induces proinflammatory mechanisms, increasing superoxide anion production and cytokine secretion. A recent study has shown that ET-1 is involved in the activation of transcription factors such as NF-kappaB and expression of proinflammatory cytokines including TNF-alpha, IL-1, and IL-6. It has been also indicated that during endotoxaemia, the plasma level of ET-1 is increased in various animal species. Some authors indicate a clear correlation between endothelin plasma level and morbidity/mortality rate in septic patients. These pathological effects of ET-1 may be abrogated at least partly by endothelin receptor blockade. ET-1 receptor antagonists may be useful for prevention of various vascular diseases.

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Molecular Weight: 26.0 kDa

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Gene ID: 1906

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NCBI Accession: [NM\\_01955, NP\\_001946](#)

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UniProt: [P05305](#)

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Pathways: [Hormone Transport](#), [Negative Regulation of Hormone Secretion](#), [Regulation of Systemic Arterial Blood Pressure by Hormones](#), [cAMP Metabolic Process](#), [Regulation of Muscle Cell Differentiation](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [Regulation of Cell Size](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: water

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Buffer: PBS