

## Active Recombinant Rat Edn1 protein, His-tagged

**Cat. No.** Edn1-2686R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Active Recombinant Rat Edn1 protein(P22388)(54~202 aa), fused with N-terminal His tag, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 54-202 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>             | Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Bio-activity</b>     | <p>Endothelins (EDN) are small (21 amino acids) vasoactive peptides produced by many cell types including endothelial and epithelial cells, macrophages and fibroblasts. By binding to G-protein-linked transmembrane receptors, EDNs participate in vasoconstriction modulation and cell growth regulation. It has been proven that EDN1 has chemotaxis active on monocytes, thus chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of EDN1 on the human monocytic cell line THP-1. Briefly, THP-1 cells were seeded into the upper chambers (100uL cell suspension, 10<sup>6</sup> cells/mL in RPMI 1640 with 0.5% FBS) and EDN1 (20ng/mL, 40ng/mL and 80ng/mL diluted separately in serum free RPMI 1640) was added in lower chamber with a polycarbonate filter (8μm pore size) used to separate the two compartments. After incubation at 37°C with 5% CO<sub>2</sub> for 3h, the filter was removed, then cells in lower chamber were observed by inverted microscope at low</p> |

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magnification (×100) and the number of migrated cells were counted at high magnification (×400) randomly (five fields for each filter). Result shows EDN1 is able to induce migration of THP-1 cells. The migrated THP-1 cells in low chamber at low magnification (×100) were shown. Five fields of each chamber were randomly chosen, and the migrated cells were counted at high magnification (×400). Statistical results were shown. The optimum chemotaxis of EDN1 occurs at 80 ng/mL.

|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 18.5 kDa                                                                                                   |
| <b>Purity</b>         | > 95% as determined by SDS-PAGE.                                                                           |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH 8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.         |

## GENE INFORMATION

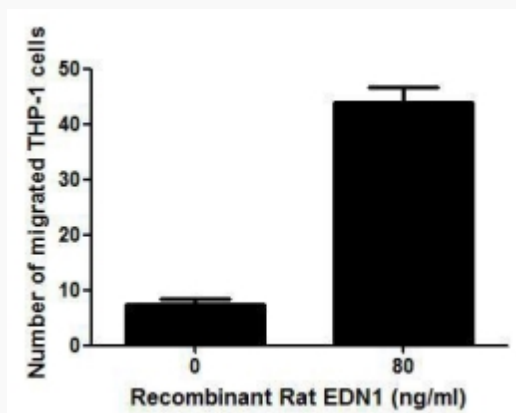
|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Edn1 endothelin 1 [ Rattus norvegicus ]</a>                 |
| <b>Official Symbol</b> | <a href="#">Edn1</a>                                                    |
| <b>Synonyms</b>        | EDN1; endothelin 1; endothelin-1; ET-1; PPET1; preproendothelin-1; Et1; |
| <b>Gene ID</b>         | <a href="#">24323</a>                                                   |
| <b>mRNA Refseq</b>     | <a href="#">NM_012548</a>                                               |
| <b>Protein Refseq</b>  | <a href="#">NP_036680</a>                                               |

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## Activity



## SDS-PAGE

