

# Active Recombinant Human EPOR & CD131 Protein, Fc-tagged

**Cat. No.** EPOR & CD131-1241H    **Lot. No.** (See product label)

## SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant extracellular domain (Met 1-Pro 250) of human EPOR (NP_000112.1) linked with the extracellular domain (Trp 17-Trp 443) of human CD131 (NP_000386.1) by a peptide linker was fused with the Fc region of human IgG1 at the C-terminus.                                                                                                                   |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>        | 1-250;17-443 a.a.                                                                                                                                                                                                                                                                                                                                                   |
| <b>Predicted N Terminal</b> | Ala 25                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.                                                                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>         | 1. Measured by its ability to bind rat EPO-His in a functional ELISA. 2. Measured by its ability to bind mouse EPO-His in a functional ELISA.                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>       | The recombinant human EPOR&CD131/Fc chimera is a disulfide-linked homodimer of EPOR&CD131-Fc heterodimer. The reduced EPOR& CD131-Fc comprises 906 amino acids and has a calculated molecular mass of 101 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 125 kDa in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                                                                                                                     |

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|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >90 % as determined by SDS-PAGE.                                                                                                                                               |
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                      |
| <b>Storage</b>        | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                      |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |

## GENE INFORMATION

|                            |                                                                                |
|----------------------------|--------------------------------------------------------------------------------|
| <b>Gene Name</b>           | EPOR erythropoietin receptor [ Homo sapiens ]                                  |
| <b>Official Symbol</b>     | EPOR                                                                           |
| <b>Synonyms</b>            | EPOR; erythropoietin receptor; EPO-R; MGC138358;                               |
| <b>Gene ID</b>             | 2057                                                                           |
| <b>mRNA Refseq</b>         | NM_000121                                                                      |
| <b>Protein Refseq</b>      | NP_000112                                                                      |
| <b>MIM</b>                 | 133171                                                                         |
| <b>UniProt ID</b>          | P19235                                                                         |
| <b>Chromosome Location</b> | 19p13.3-p13.2                                                                  |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine- |

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cytokine receptor interaction, conserved biosystem; EPO Receptor Signaling, organism-specific biosystem; EPO signaling pathway, organism-specific biosystem; Hematopoietic cell I

**Function**

erythropoietin receptor activity; identical protein binding; protein binding; receptor activity;

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