

Human EPOR/Erythropoietin Receptor (Fc Tag) recombinant protein



Catalog Number: 504113

General Information

Protein Construction

A DNA sequence encoding the extracellular domain (Met-Pro 250) of human erythropoietin receptor (NP_000112.1) precursor was expressed with the C-terminal fused Fc region of human IgG1.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its binding ability in a functional ELISA. Immobilized CD131 at 10 µg/ml (100 µl/well) can bind biotinylated recombinant human EPOR with a linear range of 0.16-4 µg/ml.
2. Measured by its ability to inhibit EPOdependent proliferation of TF-1 human erythroleukemic cells. The ED₅₀ for this effect is typically 4-16 ng/mL in the presence of 0.1 U/mL Recombinant Human EPO.

Purity

> 90 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Ala 25

Molecular Mass

The recombinant human EPOR/Fc is a disulfide-linked homodimeric protein after removal of the signal peptide. The reduced monomer consists of 460 amino acids and has a predicted molecular mass of 51.0 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhEPOR/Fc monomer is approximately 55-60 kDa due to glycosylation.

Formulation

Lyophilized from sterile PBS, 8% sucrose, 0.5% Tween-20, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

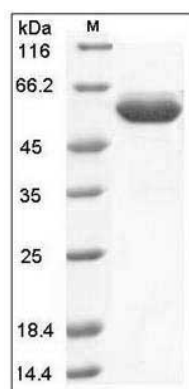
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



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(Fc Tag) SDS-PAGE