Mouse EPOR/Erythropoietin Receptor (Fc Tag) recombinant protein

Catalog Number: 503227

General Information

Protein Construction

A DNA sequence encoding the mouse EPOR (NP_034279.3) (Met1-Pro249) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

Organism

Mouse

Expression Host

Baculovirus-Insect Cells

QC Testing

Activity

1. Measured by its ability to inhibit EPOdependent proliferation of TF-1 human erythroleukemic cells. The ED_{50} for this effect is typically 0.05-0.2 μg/mL in the presence of 16 ng/mL Recombinant mouse EPO.
2. Measured by its binding ability in a functional ELISA.
3. Immobilized mouse EPO-His (Cat:504106) at 10μg/mL (100 μL/well) can bind mouse EPOR-Fc. The EC_{50} of mouse EPOR-Fc is 0.06-0.13μg/mL.

Purity

> 85 % 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℃

Predicted N terminal

Ala 25

Molecular Mass

The recombinant mouse EPOR/Fc is a disulfide-linked homodimer. The reduced monomer comprises 463 amino acids and has a predicted molecular mass of 51.4 kDa. The apparent molecular mass of the protein is approximately 58.6 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation

Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, pH 7.0.
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

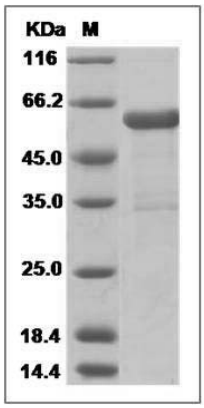
Storage

Store it under sterile conditions at -20℃ to -80℃. 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



Mouse EPO Receptor / EPOR Protein (Fc Tag) SDS-PAGE