

# Rat Erythropoietin / EPO (His Tag) recombinant protein



Catalog Number: 502642

## General Information

### Protein Construction

A DNA sequence encoding the rat EPO (P29676-1) (Met 1-Arg 192) was fused with a polyhistidine tag at the C-terminus.

### Organism

Rat

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

1. Measured by its ability to bind human EPOR-Fc (Cat:504113) in a functional ELISA.
2. Measured by its ability to bind biotinylated human EPOR-His (Cat:502594) in a functional ELISA.
3. Measured by its ability to bind mouse EPOR-Fch (Cat:50031-M03H) in a functional ELISA.
4. Measured by its ability to bind human EPOR & CD131-Fc (Cat:CT010-H02H) in a functional ELISA.
5. Measured by its ability to inhibit Ependependent proliferation of TF1 human erythroleukemic cells. The ED<sub>50</sub> for this effect is 2-10ng/mL.

### 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 27

### Molecular Mass

The recombinant rat EPO comprises 176 amino acids with and has a predicted molecular mass of 20 kDa. It migrates as an approximately 27 kDa band in reduced SDS-PAGE.

### Formulation

- Lyophilized from sterile 20mM Tris, 500mM NaCl, 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

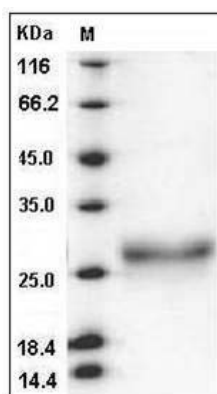
### Storage

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



Rat Erythropoietin / EPO Protein (His Tag) SDS-PAGE