

Active Recombinant Rat EPO, His-tagged

Cat. No. EPO-578R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat EPO (P29676-1) (Met 1-Arg 192), fused with a polyhistidine tag at the C-terminus, was produced in Baculovirus-Insect cells.
Species	Rat
Source	Insect cells
ProteinLength	Met 1-Arg 192
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	<ol style="list-style-type: none">1. Measured by its ability to bind human EPOR-Fc in a functional ELISA.2. Measured by its ability to bind biotinylated human EPOR-His in a functional ELISA.3. Measured by its ability to bind mouse EPOR-Fch in a functional ELISA.4. Measured by its ability to bind human EPOR & CD131-Fc in a functional ELISA.5. Measured by its ability to inhibit Epo-dependent proliferation of TF1 human erythroleukemic cells. The ED50 for this effect is 2-10ng/mL.
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.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C 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	It is recommended that sterile water be added to the vial to prepare a stock solution. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Epo erythropoietin [<i>Rattus norvegicus</i>]
Official Symbol	EPO
Gene ID	24335
mRNA Refseq	NM_017001.1
Protein Refseq	NP_058697.1

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