

# Biotinylated Human EPO R/Erythropoietin R Protein

Cat. No. EPO-HM50RB

## Description

<b>Source</b>	Recombinant Biotinylated Human EPO R/Erythropoietin R Protein is expressed from HEK293 with hFc tag and Avi tag at the C-terminus. It contains Ala25-Pro250.
<b>Accession</b>	P19235-1
<b>Molecular Weight</b>	The protein has a predicted MW of 52.58 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

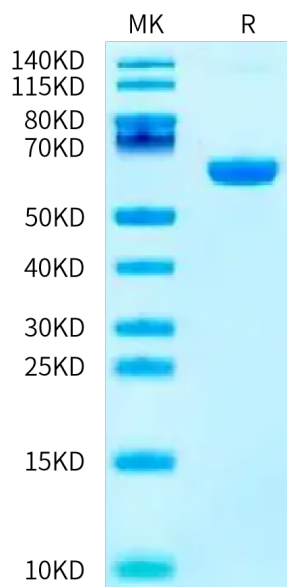
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

The erythropoietin (epo) receptor is a member of the cytokine receptor family. It is expressed almost exclusively on erythroid precursor cells and controls the development of red blood cells. The epo receptor has no intrinsic kinase activity, but binds intracellular tyrosine kinases to elicit its signals. Alterations in the transmission of the signalling cascade lead to clinically abnormal red blood cell production.

## Assay Data

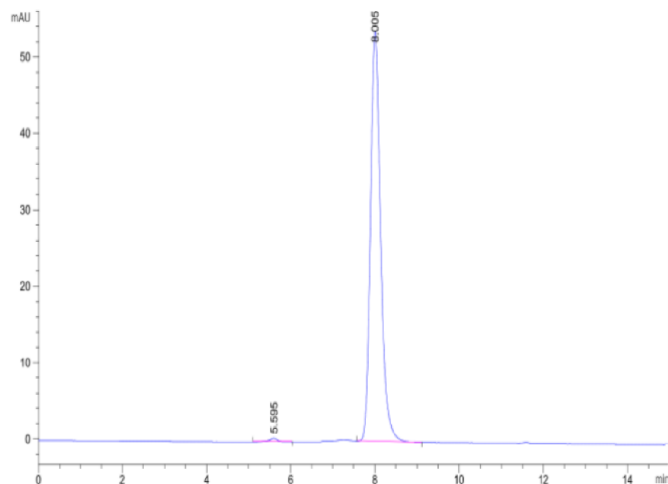
### Bis-Tris PAGE



Biotinylated Human EPO R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

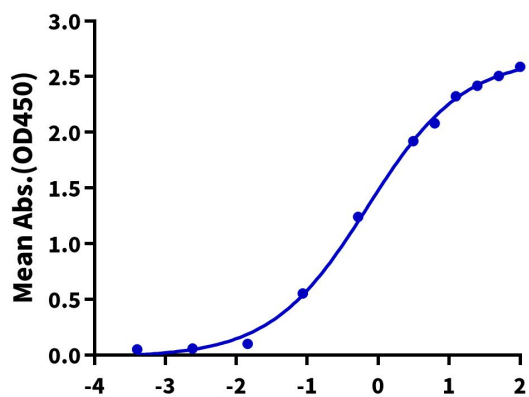


The purity of Biotinylated Human EPO R is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Biotinylated Human EPO R, hFc Tag ELISA**

0.5µg Human EPO, No Tag Per Well



Immobilized Human EPO, No Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human EPO R, hFc Tag with the EC50 of 0.70µg/ml determined by ELISA.