

Recombinant Human EPOR protein (rFc Tag) (HPLC verified)

Catalog Number: Eg2595

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE
>90 %, SEC-HPLC**Tag:**
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC**Endotoxin Level:**
<0.1 EU/ µg protein, LAL method**Source:**
HEK293-derived Human EPOR protein Ala25-Pro250 (Accession# P19235-1) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**
2057**Accession:**
P19235-1**Predicted Molecular Mass:**
50.9 kDa**SDS-PAGE:**
52-60 kDa, reducing (R) conditions**Formulation:**
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Erythropoietin (EPO) receptor (EPOR) is a glycoprotein that belongs to the type I superfamily of single-transmembrane cytokine receptors. It consists of an extracellular domain that binds to the EPO ligand, a transmembrane domain and an intracellular domain. The interaction of EPO and EPOR triggers the activation of several signaling pathways that induce erythropoiesis, including JAK2/STAT5, PI3K/AKT, and MAPK. EPOR is present on erythroid progenitor cells and has also been detected on a wide variety of non-hematopoietic cells.

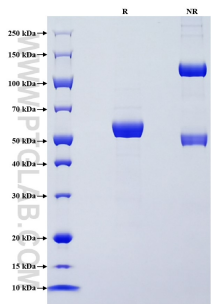
References

1. Ribatti D. (2012) Int Rev Cell Mol Biol. 299:199-234.
2. Tóthová Z, et al. (2021) Int J Mol Sci. 22(13):7109.
3. Awida Z, et al. (2022) Int J Mol Sci. 23(19):12051.

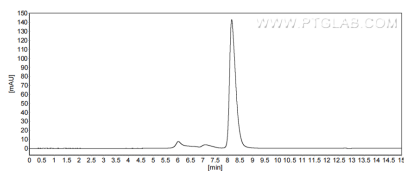
Synonyms

EPO R, EPO-R, erythropoietin receptor

Selected Validation Data



Purity of Recombinant Human EPOR was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human EPOR was greater than 90% as determined by SEC-HPLC.