

For Research Use Only

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

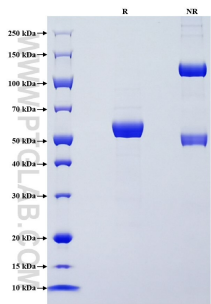
EPO R, EPO-R, erythropoietin receptor

For technical support and original validation data for this product please contact

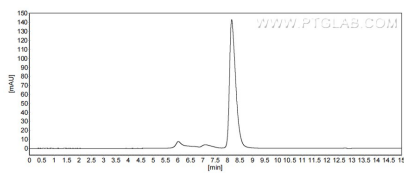
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Selected Validation Data



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.