

Recombinant Mouse EPOR Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51277

Size: 10ug, 100ug

Protein Name: Erythropoietin receptor (EPO-R)

Synonym: Epor

UniProt ID: P14753

UniProt Link: www.uniprot.org/uniprotkb/P14753/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 507 AA

Molecular Weight: 55 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDKLRVPLWPRVGPLCLLLAGAAWAPSPSLPDPKFESKAALLASRGSEELLCFTQRLLEDLVCFWEE
AASSGMDFNYSFSYQLEGESRKSCSLHQAPTVRGSRVFWCSLPTADTSSFVPLELQVTEASGSPRY
HRIIHINEVLLDAPAGLLARRAEEGSHVLRWLPPPGAPMTTHIRYEVDVSAGNRAGGTQRVEVLE
GRTECVLSNLRGGTRYTFAVRARMASPSFSGFWSAWSEPASLLTASDLDPILITLSLILVLISLLTTL
ALLSHRRTLQQKIWPGIPSPSEFEGLFTTHKGNFQLWLLQRDGLWWSPGSSFPEDPPAHLEVLS
EPRWAVTQAGDPGADDEGPLLEPVGSEHAQDTYLVLDKWLLPRTPCSENLSGPGGSVDPVTMDEA
SETSSCPSDLASKPRPEGTSPSSFYETILDPSQLLCPRALPPELPPTPPHLKYLYLVVSDSGISTDYS
SGGSQGVHGDSSDGPYSHPYENSLVPDSEPLHPGYVACS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Erythropoietin receptor (EPO-R) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Receptor for erythropoietin, which mediates erythropoietin-induced erythroblast proliferation and differentiation (PubMed:2539263, PubMed:8341708, PubMed:8382775, PubMed:8617735). Upon EPO stimulation, EPOR dimerizes triggering the JAK2/STAT5 signaling cascade (PubMed:2539263, PubMed:8382775, PubMed:8617735). In some cell types, can also activate STAT1 and STAT3. May also activate the LYN tyrosine kinase (PubMed:9573010).

Subcellular Localization: Cell membrane ; Single-pass type I membrane protein .; [Isoform EPOR-F]: Cell membrane ; Single-pass type I membrane protein .; [Isoform EPOR-S]: Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.