

Recombinant Rat EPO Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52334

Size: 10ug, 100ug

Protein Name: Erythropoietin

Synonym: Epo

UniProt ID: P29676

UniProt Link: www.uniprot.org/uniprotkb/P29676/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 192 AA

Molecular Weight: 21 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGVPERPTLLLLLSLLLIPLGLPVLCAPPRLICDSRVLERYILEAKEAENVTMGCAEGPRLSENITVPDT
KVNIFYAWKRMKVEEQAVEVWQGLSLLSEAILQAQALQANSSQPPESLQLHIDKAISGLRSLTSLLRV
LGAQKELMSPPDATQAAPLRTLADTFCKLFRVYSNFLRGKCLKLYTGEACRRGDR

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 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: Hormone involved in the regulation of erythrocyte proliferation and differentiation and the maintenance of a physiological level of circulating erythrocyte mass. Binds to EPOR leading to EPOR dimerization and JAK2 activation thereby activating specific downstream effectors, including STAT1 and STAT3.

Subcellular Localization: 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.