

Recombinant Rat EREG Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52611

Size: 10ug, 100ug

Protein Name: Proepiregulin [Cleaved into: Epiregulin (EPR)]

Synonym: Ereg

UniProt ID: Q9Z0L5

UniProt Link: www.uniprot.org/uniprotkb/Q9Z0L5/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 162 AA

Molecular Weight: 18 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

METFPAAWVLALLCLGSHLLQAVISTTVIPSCIP EESEDNCTALVQMEDDPRVAQVLITKCSSDMDGY
CLHGHCIYLVDMSEKYCRCEVGYTGLRCEHFFLTVHQPLSREYVALTVILVFLFLIVTAGSMYYFCRW
YRNRKSKKSREEYERVTSGGPGLPQV

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 Proepiregulin [Cleaved into: Epiregulin (EPR)] 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: Ligand of the EGF receptor/EGFR and ERBB4. Stimulates EGFR and ERBB4 tyrosine phosphorylation (PubMed:9990076). Contributes to inflammation, wound healing, tissue repair, and oocyte maturation by regulating angiogenesis and vascular remodeling and by stimulating cell proliferation (PubMed:24631357).

Subcellular Localization: [Epiregulin]: Secreted, extracellular space .; [Proepiregulin]: Cell membrane ; Single-pass type I membrane protein .

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.