

Recombinant Mouse EREG Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51646

Size: 10ug, 100ug

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

Synonym: Ereg

UniProt ID: Q61521

UniProt Link: www.uniprot.org/uniprotkb/Q61521/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 162 AA

Molecular Weight: 18 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

METLPASWVLTLCLGSHLLQAVISTTVIPSCIPGESEDNCTALVQMEDDPRVAQVQITKCSSDMDGY
CLHGQCIYLVDMREKFCRCEVGYTGLRCEHFFLTVHQPLSKEYVALTVILIFLFIITAGCIYYFCRWYK
NRKSKKSREEYERVTSGBPVLPPQV

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 (By similarity). 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.