

Recombinant Mouse FGF4 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51264

Size: 10ug, 100ug

Protein Name: Fibroblast growth factor 4 (FGF-4) (Heparin-binding growth factor 4) (HBGF-4) (K-fibroblast growth factor)

Synonym: Fgf4, Fgf-4, Kfgf

UniProt ID: P11403

UniProt Link: www.uniprot.org/uniprotkb/P11403/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 202 AA

Molecular Weight: 22 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAKRGPTTGTLPRVLLALVVALADRGTAAPNGTRHAELGHGWDGLVARSLARLPVAAQPPQAAVR
SGAGDYLLGLKRLRRLYCNVGIGFHLQVLPDGRIGGVHADTRDSLLELSPVQRGVVSIFGVASRFFV
AMSSRGKLFGVPPFTDECKFKEILLPNYNAYESYAYPGMFMALSKNGRTKKGNRVSPMTMKVTHFL
PRL

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 Fibroblast growth factor 4 (FGF-4) (Heparin-binding growth factor 4) (HBGF-4) (K-fibroblast growth factor) 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: Plays an important role in the regulation of embryonic development, cell proliferation, and cell differentiation. Is essential for survival of the postimplantation mouse embryo. Required for normal limb and cardiac valve development during embryogenesis. May play a role in embryonic molar tooth bud development via inducing the expression of MSX1, MSX2 and MSX1-mediated expression of SDC1 in dental mesenchyme cells (PubMed:8898217).

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.