

Recombinant Mouse FGF23 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51888

Size: 10ug, 100ug

Protein Name: Fibroblast growth factor 23 (FGF-23)

Synonym: Fgf23

UniProt ID: Q9EPC2

UniProt Link: www.uniprot.org/uniprotkb/Q9EPC2/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 251 AA

Molecular Weight: 28 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLGTCLRLLVGVLCTVCSLGTARAYPDTSPLLGSNWGSLTHLYTATARTSYHLQIHRDGHVDGTPH
QTIYSALMITSSEDAGSVITGAMTRRFLCMDLHGNIFGSLHFSPENCKFRQWTLENGYDVYLSQKHH
YLVSLGRAKRIFQPGTNPPPFSSQFLARRNEVPLLHFYTVRPRRHTRSAEDPPERDPLNVLKPRPRAT
PVPVSCSRELPSAEEGGPAASDPLGVLRGRGDARGGAGGADRCRPFPRFV

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 23 (FGF-23) 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: Regulator of phosphate homeostasis (By similarity). Inhibits renal tubular phosphate transport by reducing SLC34A1 levels (By similarity). Acts directly on the parathyroid to decrease PTH secretion (By similarity). Regulator of vitamin-D metabolism (By similarity). Negatively regulates osteoblasts differentiation and matrix mineralization (By similarity). Up-regulates EGR1 expression in the presence of KL (PubMed:17086194).

Subcellular Localization: Secreted . Note=Secretion is dependent on O-glycosylation.

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.