

# Recombinant Rat FGF23 Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP52557

Size: 10ug, 100ug

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

Synonym: Fgf23

UniProt ID: Q8VI82

UniProt Link: [www.uniprot.org/uniprotkb/Q8VI82/entry](http://www.uniprot.org/uniprotkb/Q8VI82/entry)

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 251 AA

Molecular Weight: 28 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MLGACLRLLVGALCTVCSLGTARAYSDTSPLLGSNWGSLTHLYTATARN SYHLQIHRDGHVDGTPH  
QTIYSALMITS EDAGSVVIIGAMTRRFLCMDLRGNIFGSYHFSPENCRFRQWTL ENG YDVYLSPKH HY  
LVSLGRSKRIFQPGTNPPPF SQFLARRNEVPLLHFYTARPRRHTRSAEDPPERDPLNV LKPRPRATPI  
PVSCSRELPSAE EGGPAASDPLGVLRGRGDARRGAGGTDRCPFP RFV

## 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). Regulator of vitamin-D metabolism (By similarity). Negatively regulates osteoblasts differentiation and matrix mineralization (By similarity). Acts directly on the parathyroid to decrease PTH secretion (PubMed:17992255). 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.