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# Fgf21
# Recombinant Mouse Fibroblast Growth Factor 21 (His Tag)

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|---|---|---|---|
| **Catalog No.** | CRM612A-His | **Quantity:** | 20 µg |
| | CRM612B-His | | 50 µg |
| | CRM612C-His | | 1.0 mg |

**Alternate Names:** Fibroblast growth factor 21, FGF-21

**Description:** Fibroblast growth factor 21 (FGF-21) is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF-21 has a hydrophobic amino terminus, which is a typical signal sequence, and appears to be a secreted protein. The metabolic regulator FGF-21 has antidiabetic properties in animal models of diabetes and obesity. FGF-21 is a novel adipokine associated with obesity-related metabolic complications in humans. The paradoxical increase of serum FGF-21 in obese individuals, which may be explained by a compensatory response or resistance to FGF-21, warrants further investigation as a possible treatment for diabetes.

**UniProt ID:** Q9JJN1

**Protein Construction:** A DNA sequence encoding the mouse FGF21 (Met 1-Ser 210) was expressed, with a polyhistidine tag at the C-terminus.

**Source:** HEK293 Cells

**Formulation:** Lyophilized from sterile PBS, pH 7.4
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Molecular Weight:** The secreted rmFGF-21 consists of 193 aa with a predicted MW of 21.3 kDa and migrates at ~25 kDa in SDS-PAGE under reducing conditions, due to glycosylation.

**Purity:** > 85 % as determined by SDS-PAGE.

**Endotoxin Level:** < 1.0 EU per µg of the protein as determined by the LAL method

**Biological Activity:** Testing in progress

**Predicted N-terminal:** Ala 29

**Reconstitution:** **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
**DO NOT VORTEX**. Allow several minutes for complete reconstitution.

**Storage & Stability:** Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
**Avoid repeated freeze-thaw cycles.**

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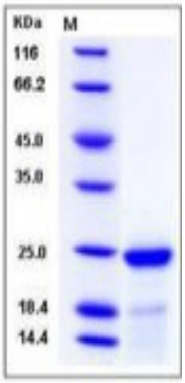
SDS-PAGE

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