

# FGF-21

Catalog # PVGS1153

## Product Information

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<b>Primary Accession Species</b>	<a href="#">Q9JIN1</a> Mouse
<b>Sequence</b>	Ala29-Ser210
<b>Purity</b>	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
<b>Endotoxin Level Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 $\mu$ g/ml, corresponding to a specific activity of $> 2.0 \times 10^3$ IU/mg in the presence of 5.0 $\mu$ g/ml of rMuKlotho- $\beta$ and 10.0 $\mu$ g/ml of heparin.
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	19.9 kDa
<b>Formulation Reconstitution</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in 3 $\times$ PBS, pH 7.4. It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

## Additional Information

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<b>Gene ID</b>	56636
<b>Other Names</b>	Fibroblast growth factor 21, FGF-21, Fgf21
<b>Target Background</b>	Fibroblast growth factor-21 (FGF21) belongs to the large FGF family which has at least 23 members. All FGF family members are heparin binding growth factors with a core 120 amino acid (a.a.) FGF domain that allows for a common tertiary structure. FGFs are expressed during embryonic development and in restricted adult tissues. Four distinct but related classes of FGF receptors, FGF R1, 2, 3, and 4, exist. FGF-21, in the presence of betaKlotho as a protein cofactor, signals through the FGFR 1c and 4 receptors and stimulates insulin independent glucose uptake by adipocytes.

## Protein Information

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<b>Name</b>	Fgf21
<b>Function</b>	Stimulates glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1/GLUT1 expression (but not SLC2A4/GLUT4 expression). Activity probably requires the presence of KLB. Regulates systemic glucose homeostasis and insulin sensitivity.
<b>Cellular Location</b>	Secreted.
<b>Tissue Location</b>	Most abundantly expressed in the liver, also expressed in the thymus at lower levels (PubMed:10858549, PubMed:30389664). Expressed in skeletal muscle (at protein level) Secreted in plasma (at protein level) (PubMed:30605666)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.