

FGF-21, His, Human

Cat. No.: Z03207-1

Size: 1.0 mg

Synonyms: fibroblast growth factor-21, FGFL

Description:

FGF-21, also known as fibroblast growth factor-21 and FGFL, is a secreted growth factor belonging to the heparin-binding growth factor family. It is produced by hepatocytes in response to fatty acid stimulation. FGF-21 couples with its co-factor beta-Klotho to signal through FGFR1c and FGFR4. Signal transduction results in insulin-independent uptake of glucose by adipocytes. Clinical administration of FGF-21 induces energy expenditure, fat utilization and lipid excretion.

Amino Acid Sequence:

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00001 HPIPDSSPLL QFGGQVRQRY LYTDDAQTE AHLEIREDTG
00041 VGGAADQSPE SLLQLKALKP GVIQILGVKT SRFLCQRPDG
00081 ALYGLHFDP EACSFRELL EDGYNVYQSE AHGLPLHLPG
00121 NKSPHRDPAP RGPAPFLPLP GLPPALPEPP GILAPQPPDV
00161 GSSDPLSMVG PSQQRSPSYA SHHHHHH
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Source: CHO

Species: Human

Biological Activity: ED₅₀ < 0.3 µg/ml, measured in a bioassay using NIH-3T3 cells.

Molecular Weight: 23-25kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant human FGF-21 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human FGF-21, His should be stable up to 1 week at 4°C or up to 2 months at -20°C.