

GFH148 Recombinant Human FGF-21

Description

Fibroblast Growth Factor 21 (FGF-21) is an endocrine hormone that regulates energy homeostasis and exerts cardioprotective functions during heart injury. FGF-21 is expressed in the liver, pancreas, heart, and adipose tissues. FGF-21 signaling is activated through the FGF receptor FGFR1c and β -Klotho co-receptor. FGF-21 is an important regulator of glucose uptake and reduces cell apoptosis under stress conditions.

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| Length | 182 aa |
| Molecular Weight | 19.5 kDa |
| Source | E. coli |
| Accession Number | Q9NSA1 |
| Purity | $\geq 95\%$ determined by reducing and non-reducing SDS-PAGE |

Specifications

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| Alternative Names | Fibroblast Growth Factor 21, FGF21, FGF 21, FGFL |
| Biological Activity | Human FGF-21 is fully biologically active when compared to standard. The activity is determined by a proliferation assay using NIH 3T3 cells with β -klotho and heparin and it is typically less than 500 ng/ml. This corresponds to an expected specific activity of 2.0×10^3 units/mg. |
| Endotoxin Level | ≤ 1.00 EU/ μ g as measured by kinetic LAL |
| Formulation | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 100 mM sodium chloride, pH 7.5 |
| AA Sequence | MHPIPDSSPL LQFGGQVRQR YLYTDDAQQT EAHLEIREDG TVGGAADQSP ESLLQLKALK PGVIQILGVK TSRFLCQRPD GALYGSLHFD PEACSFRELL LEDGYNVYQS EAHGLPLHLP GNKSPHRDPA PRGPARFLPL PGLPPALPEP PGILAPQPPD VGSSDPLSMV GPSQGRSPSY AS |

Preparation and Storage

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| Reconstitution | Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions. |
| Stability and Storage | 12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed. |