

GFH148AF Recombinant Human FGF-21 (Animal-Free)

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.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

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

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 EAHLEIREDE TVGGAADQSP ELLQLKALK PGVIQILGVK TSRFLCQRPD GALYGLHFD PEACSFRELL LEDGYNVYQS EAHGLPLHLP GNKSPHRDPA PRGPARFLPL PGLPPALPEP PGILAPQPPD VGSSDPLSMV GPSQGRSPSY AS

Preparation and Storage

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.