

## FGF21

### Recombinant Human FGF-21

<b>Catalog No.</b>	CRF159A CRF159B CRF159C	<b>Quantity:</b>	5 µg 20 µg 1.0 mg
<b>Alternate Names:</b>	Fibroblast growth factor 21, FGF21		
<b>Description:</b>	<p>Recombinant Human FGF-21 is a single non-glycosylated polypeptide chain containing 182 amino acids.</p> <p>Fibroblast growth factor 21 (FGF-21) 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 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.</p>		
<b>Gene ID:</b>	26291		
<b>Source:</b>	<i>E. coli</i>		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
<b>Purity:</b>	>95% by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	< 0.1 ng/µg of protein.		
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of BaF3 cells expressing FGF receptors is 0.06-0.4 µg/ml in the presence of betaKlotho and Heparin.		
<b>Amino Acid Sequence:</b>	MHPIDSSPL LQFGGQVRQR YLYTDDAQQT EAHLEIREDG TVGGAADQSP ESSLQLKALK PGVIQILGVK TSRFLCQRPD GALYGSLHFD PEACSFRELL LEDGYNVYQS EAHGLPLHLP GNKSPHRDPA PRGPARFLPL PGLPPALPEP PGILAPQPPD VGSSDPLSMV GPSQGRSPSY AS		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening to bring contents to the bottom.</b> Reconstitute in sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	The lyophilized product is stable for several weeks at 2-4°C, but should be stored desiccated at -20°C. After reconstitution, the protein should be divided into working aliquots and frozen at -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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