

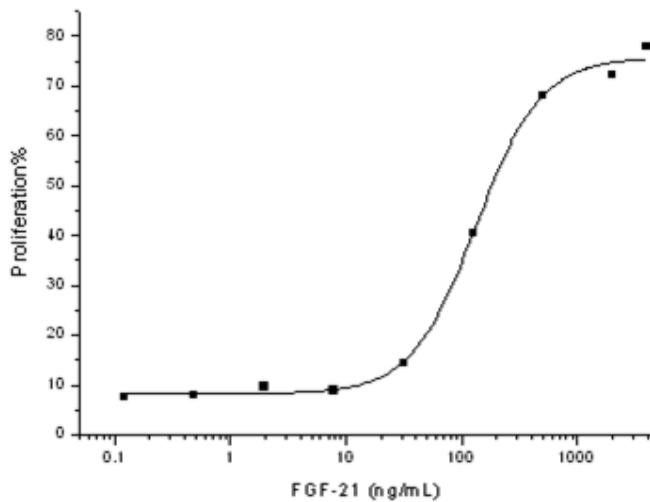
## FGF21

### Recombinant Human Fibroblast Growth Factor 21 (His Tag)

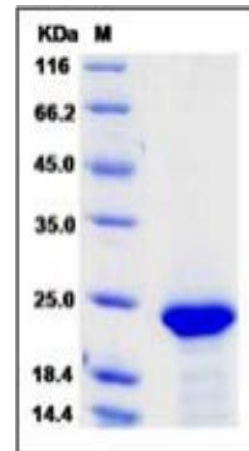
<b>Catalog No.</b>	CRH591A-His CRH591B-His CRH591C-His	<b>Quantity:</b>	20 µg 50 µg 1.0 mg
<b>Alternate Names:</b>	Fibroblast growth factor 21, FGF-21		
<b>Description:</b>	Fibroblast growth factor 21 (FGF-21) is a member of the fibroblast growth factor family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF-21 has a hydrophobic amino terminus, which is a typical signal sequence, and appears to be a secreted protein. FGF-21 is a novel adipokine associated with obesity-related metabolic complications in humans. The paradoxical increase of serum FGF-21 in obese individuals, which may be explained by a compensatory response or resistance to FGF-21, warrants further investigation. FGF-21 exhibits therapeutic characteristics for potential treatment of diabetes.		
<b>UniProt ID:</b>	Q9NSA1		
<b>Accession Number:</b>	NP_061986.1		
<b>Protein Construction:</b>	A DNA sequence encoding the mature form of human FGF21 (His 29-Ser 209) was expressed, with a polyhistidine tag at the N-terminus.		
<b>Source:</b>	E. coli		
<b>Formulation:</b>	Lyophilized from 50 mM Tris, 10 % glycerol, 0.05 % Brij 35, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Molecular Weight:</b>	The rhFG-F21 consisting of 188 amino acids with a predicted MW of 20.2 kDa. It migrates at 23 kDa in SDS-PAGE under reducing conditions.		
<b>Purity:</b>	> 95 % as determined by SDS-PAGE.		
<b>Biological Activity:</b>	Measured in a cell proliferation assay using NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 0.1-1 µg/mL in the presence of 2.5 µg/mL of rmKlotho β.		
<b>Predicted N-terminal:</b>	Met		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.		
<b>Storage &amp; Stability:</b>	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		



Measured in a cell proliferation assay using NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is typically 0.1--1  $\mu\text{g}/\text{mL}$  in the presence of 2.5  $\mu\text{g}/\text{mL}$  of rmKlotho  $\beta$ .



SDS-PAGE



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