

## Human FGF21 protein, His Tag

Cat #: PRP100221

Size: 50µg/1mg

### Product Information

	<b>Product Name:</b> Human FGF21 protein, His Tag		
<b>REF</b>	<b>Catalog Number:</b> PRP100221	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 95 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E. coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Fibroblast growth factor 21 (FGF21) is a member of the fibroblast growth factor (FGF) 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. The metabolic regulator fibroblast growth factor 21 (FGF21) has antidiabetic properties in animal models of diabetes and obesity. FGF21 is a novel adipokine associated with obesity-related metabolic complications in humans. The paradoxical increase of serum FGF21 in obese individuals, which may be explained by a compensatory response or resistance to FGF21, warrants further investigation. FGF-21, which we have identified as a novel metabolic factor, exhibits the therapeutic characteristics necessary for an effective treatment of diabetes.

**Sequence:** Amino acid sequence derived from mature form of human FGF21 (NP\_061986.1) (His 29-Ser 209) was expressed, with a polyhistidine tag at the N-terminus.

**Protein length:** The recombinant human FGF21 consisting of 188 amino acids and has a calculated molecular mass of 20.2 kDa. It migrates as an 23 kDa band in SDS-PAGE under reducing conditions as predicted.

**Formulation:** Lyophilized from 50 mM Tris, 10 % glycerol, 0.05 % Brig 35, pH 8.0.

**Storage Instructions:** Lyophilized Human FGF21 protein, His Tag product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human FGF21 protein, His Tag in sterile ddH<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

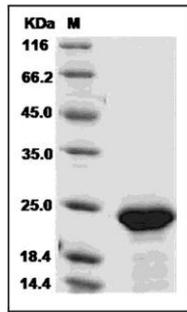


Fig. SDS-PAGE analysis of Human FGF21 protein, His Tag.

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