


Human FGF-19 Protein, His tag

Cat #: PRP1235

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human FGF-19 Protein, His tag		
REF	Catalog Number: PRP1235	LOT	Lot Number: Refer to product label
	Purity: > 98% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E. coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: Fibroblast growth factor 19 (FGF-19) is a secreted protein which belongs to the FGFs family. FGF-19 is expressed in fetal brain, cartilage, retina, and adult gall bladder. FGFs modulate cellular activity via at least 5 distinct subfamilies of high-affinity FGF receptors (FGFRs): FGFR-1, -2, -3, and -4, all with intrinsic tyrosine kinase activity. FGFRs can be important for regulation of glucose and lipid homeostasis. FGF19 has important roles as a hormone produced in the ileum in response to bile acid absorption. It has been shown to cause resistance to diet-induced obesity and insulin desensitization and to improve insulin, glucose, and lipid profiles in diabetic rodents. FGF-19 can be considered as a regulator of energy expenditure.

Sequence: Amino acid sequence derived from Human FGF-19 (Arg22-Lys216) (O95750) was expressed with a 6×His tag at the N-terminus.

Protein length: The recombinant Human FGF-19 consists of 195 amino acids and predicts a molecular mass of 21.8 kDa.

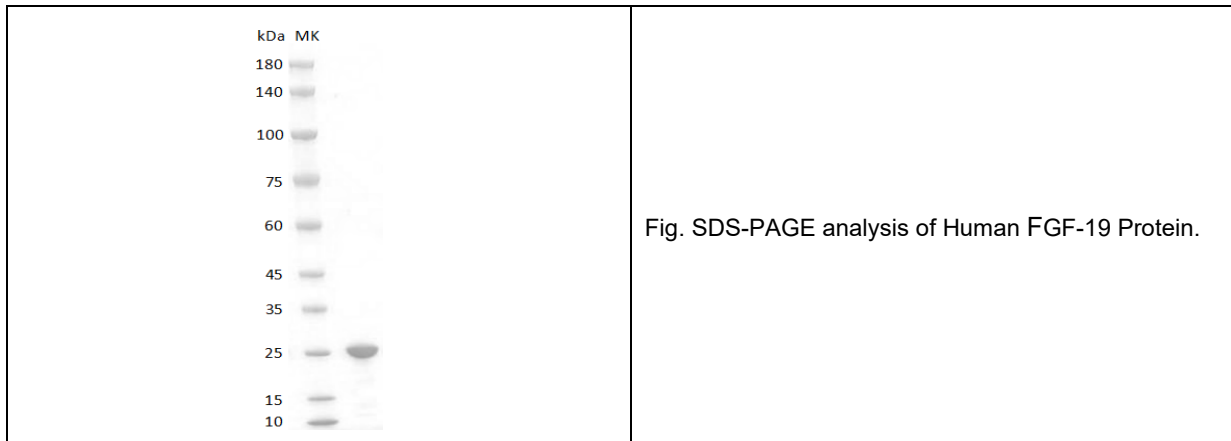
Biological Activity: Measured in a cell proliferation assay using NIH-3T3 mouse fibroblast cells. The EC50 for this effect is 24.96 ng/mL.

Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0.

Storage Instructions: Lyophilized protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days. 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 protein using the buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



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