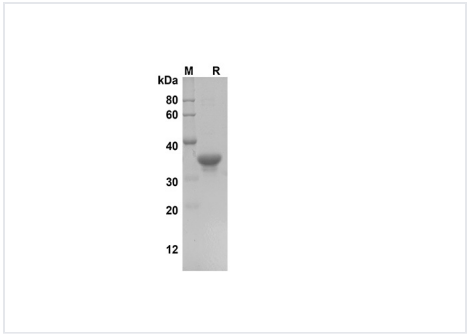
FGF21 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	FGF21, Recombinant Protein
Full Product Name	Recombinant Human FGF21 Protein (His Tag)
Product Gene Name	FGF21 recombinant protein
Product Synonym Names	FGF-21; Fibroblast growth factor 21; PRO10196; UNQ3115
Host	E Coli
Form/Format	Lyophilized from a 0.2 mum filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Purity/Purification	> 95% as determined by reducing SDS-PAGE.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	22,300 Da
Sequence Positions	His29-Ser209
Chromosome Location	Chromosome: 19; NC_000019.9 (49259344..49261582). Location: 19q13.33
OMIM	609436
3D Structure	ModBase 3D Structure for Q9NSA1
Species	Human
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Protein Tag	N-Trx
Calculated Molecular Weight	39.9 kDa
Observed Molecular Weight	37 kDa
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis
Product Categories/Family for FGF21 recombinant protein	Recombinant Proteins; Others; Metabolism; Cardiovascular; Developmental Biology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FGF21 recombinant protein	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.
Other Notes	Small volumes of FGF21 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for FGF21 purchase	MBS2584500 is a recombinant protein targeting FGF21. Also known as Recombinant Human FGF21 Protein (His Tag). Host: E Coli.



SDS-Page of FGF21 recombinant protein
SDS-PAGE analysis of Human FGF21 proteins, 2 ?g/lane of Recombinant Human FGF21 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 37 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGF21. It may not necessarily be applicable to this product.

NCBI GI #	9506597
NCBI GeneID	26291
NCBI Accession #	NP_061986.1
UniProt Primary Accession #	Q9NSA1
UniProt Secondary Accession #	Q8N683
UniProt Related Accession #	Q9NSA1
GenBank Nucleotide #	NM_019113.2
NCBI Official Full Name	fibroblast growth factor 21
NCBI Official Synonym Full Names	fibroblast growth factor 21
NCBI Official Symbol	FGF21
UniProt Protein Name	Fibroblast growth factor 21
Protein Family	Fibroblast growth factor
UniProt Gene Name	FGF21
UniProt Synonym Gene Names	FGF-21
UniProt Entry Name	FGF21_HUMAN
NCBI Protein Information	fibroblast growth factor 21; FGF-21
NCBI Summary for FGF21	The protein encoded by this gene 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. The function of this growth factor has not yet been determined. [provided by RefSeq, Jul 2008]

UniProt Comments for FGF21	FGF21: Stimulates glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1/GLUT1 expression (but not SLC2A4/GLUT4 expression). Activity requires the presence of KLB. Belongs to the heparin-binding growth factors family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 19q13.33 Cellular Component: extracellular region Molecular Function: protein binding; growth factor activity; fibroblast growth factor receptor binding Biological Process: positive regulation of glucose import; cell-cell signaling; positive regulation of cell proliferation; positive regulation of low-density lipoprotein receptor biosynthetic process; signal transduction
Research Articles on FGF21	**1.** The results suggest that FGF-21 is related to BMI but not disease activity or lipid profiles in patients with RA.
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