

Fibroblast Growth Factor-21 Recombinant Protein | FGF 21 recombinant protein

Recombinant Human Fibroblast Growth Factor-21

CATALOG #
AAA38221

HOST
E Coli

PRODUCT SYNONYMS

Fibroblast Growth Factor-21; Recombinant Human Fibroblast Growth Factor-21; FGF 21 Human; Fibroblast Growth Factor-21 Human Recombinant; Fibroblast growth factor 21; FGF-21; FGF 21 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	Lyophilized from 10mM NaP, 100mM NaCl, pH 7.5. Sterile Filtered white lyophilized powder.
Sequence	MHPIPD SSPLLQFGGQ VRQRYLYTDD AQQTEAHLEI REDGTVGGAA DQSPESLLQL KALKPGVIQI LGVKTSRFLC QRPDGALYGS LHFDPEACSF RELLEDGYN VYQSEAHGLP LHLPGNKSPH RDPAPRGPAP FLPLPGLPPA PPEPPGILAP QPPDVGSSDP LSMVGPSQGR SPSYAS
Sequence Length	209
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-21 Human Recombinant sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized FGF-21 Human Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution Fibroblast Growth Factor 21 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for FGF 21 recombinant protein

Description: Fibroblast Growth Factor -21 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 181 amino acids and an N-terminal Methionin (bold), having a molecular weight of 19.5 kDa. The FGF-21 is purified by proprietary chromatographic techniques.

Introduction: The FGFs are a family of more than 20 small (~1726 kDa) secreted peptides. The initial characterization of these proteins focused on their ability to stimulate fibroblast proliferation. This mitogenic activity was mediated through FGF receptors (FGFRs) 1, 2, or 3. A fourth closely related tyrosine kinase receptor (FGFR4) was able to bind the FGFs but did not lead to a mitogenic response. 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 and, except for FGFR-4, multiple splice isoforms, and FGFR-5, which lacks an intracellular kinase domain. There is growing evidence that FGFRs can be important for regulation of glucose and lipid homeostasis. The overexpression of a dominant negative form of FGFR-1 in β cells leads to diabetes in mice, which thus implies that proper FGF signaling is required for normal β cell function and glycemia maintenance. FGFR-2 appears to be a key molecule during pancreatic development. Moreover, FGFR-4 has been implicated in cholesterol metabolism and bile acid synthesis. FGF-19, has been shown to cause resistance to diet-induced obesity and insulin desensitization and to improve insulin, glucose, and lipid profiles in diabetic rodents. Since these effects, at least in part, are mediated through the observed changes in metabolic rates, FGF-19 can be considered as a regulator of energy expenditure. FGF-21 is preferentially expressed in liver, but an exact knowledge of FGF-21 bioactivity and its mode of action have been lacking to date. FGF-21 is a potent activator of glucose uptake on adipocytes, protects animals from diet-induced obesity when overexpressed in transgenic mice, and lowers blood glucose and triglyceride levels when therapeutically administered to diabetic rodents.

Product Categories/Family for FGF 21
recombinant protein

Cytokines and Growth Factors; Growth Factors; Fibroblast Growth Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	9506597
NCBI GeneID	26291
NCBI Accession #	NP_061986.1
NCBI GenBank Nucleotide #	NM_019113.2
UniProt Accession #	Q9NSA1; Q8N683
Molecular Weight	22,300 Da
NCBI Official Full Name	fibroblast growth factor 21
NCBI Official Synonym Full Names	fibroblast growth factor 21
NCBI Official Symbol	FGF21
NCBI Protein Information	fibroblast growth factor 21
UniProt Protein Name	Fibroblast growth factor 21
UniProt Gene Name	FGF21
UniProt Synonym Gene Names	FGF-21
UniProt Entry Name	FGF21_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/fgf21-recombinant-protein-e-coli/38221>