

Fibroblast growth factor 21 (FGF-21) Recombinant Protein | FGF21 recombinant protein

Fibroblast growth factor 21 (FGF-21): Mouse, Tagless (Recombinant protein)

CATALOG # AAA60558	HOST E Coli	APPLICATIONS Western Blot, ELISA
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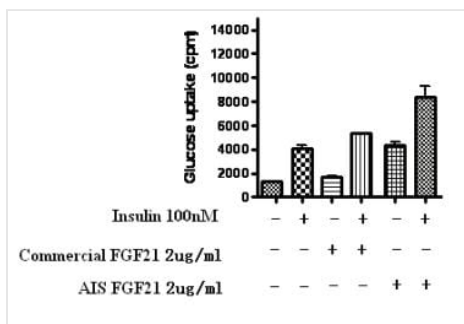
PRODUCT SYNONYMS

Fibroblast growth factor 21 (FGF-21); Fibroblast growth factor 21 (FGF-21): Mouse; Tagless (Recombinant protein); Fibroblast growth factor 21; tagless; Recombinant FGF-21 (Mouse); FGF21 recombinant protein

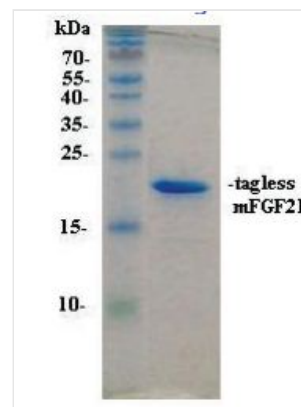
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95%; SDS PAGE to determine purity of the protein
Form/Format	Lyophilized in 1mg/mL in PBS
Sequence	GAAYIPDSS PLLQFGGQVR QRYLYTDDQ DTEAHLEIRE DGTVVGAHR SPESLLELKA LKPGVIQLG VKASRFLCQQ PDGALYGSPH FDPEACSFRE LLEDGYNVY QSEAHGLPLR LPQKDSPNQD ATSWGVPVRF L PMPGLLHEPQ DQAGFLPPEP PDVGSSDPLS MVEPLQGRSP SYAS
Sequence Length	209
Applicable Applications for FGF21 recombinant protein	WB (Western Blot), ELISA
Species	Mouse
Endotoxin Level	<0.2EU/ug
Reconstitution	Add sterile deionized water to prepare a working stock solution of approximately 1mg/mL and let the lyophilized pellet dissolve completely.
Quality Control Test	BCA to determine quantity of the protein.
Preparation and Storage	Store lyophilized protein at -20 degree C. Aliquot reconstituted protein and store at -80 degree C. Avoid repeated freezing /thawing cycles.

IMAGES



Application Data



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for FGF21 recombinant protein	Fibroblast growth factor 21 (FGF-21) is a novel protein that has been implicated in the regulation of lipid and glucose metabolism under fasting and ketotic conditions. In murine models, FGF-21 is predominantly expressed in liver, but it also expressed in adipose tissue and pancreatic beta-cells. FGF- 21 stimulates glucose uptake in adipocytes. It also protects animals from diet- induced obesity when overexpressed in transgenic mice and lowers blood glucose and triglyceride levels when administered to diabetic rodents. When administered daily for 6 weeks to diabetic rhesus monkeys, FGF-21 caused a dramatic decline in fasting plasma glucose, fructosamine, triglycerides, insulin, and glucagon. Furthermore, elevated plasma FGF-21 concentrations in humans appear to be related to the presence of hepatic and peripheral insulin resistance. Adiponectin has been shown to be critical in mediating the beneficial metabolic actions of FGF-21. Total 184 AA Mw: 20kDa (calculated). N-terminal His-tag removed, 2 extra AA left.
References	1. Stressed Liver and Muscle Call on Adipocytes with FGF21. Luo Y, McKeenhan WL. Front Endocrinol 2013 18;4:194 2. Fibroblast growth factor 21 as an emerging metabolic regulator: clinical perspectives. Woo YC, Xu A, Wang Y, Lam KS. Clin Endocrinol (Oxf). 2013 Apr;78(4):489-96 [1] Nishimura T, Nakatake Y, Konishi M, Itoh N: Identification of a novel FGF, FGF -21, preferentially expressed in the liver. Biochim Biophys Acta 1492:203-206, 2000 [2] Kharitonov A et al. FGF-21 as a novel metabolic regulator. J Clin Invest 115:1627-1635, 2005 [3] Alexei Kharitonov et al. The Metabolic State of Diabetic Monkeys Is Regulated by Fibroblast Growth Factor 21. Endocrinology. 148(2):774-781. 2007 [4] Hiroshi Kurosu et al. Tissue-specific Expression of betaKlotho and Fibroblast Growth Factor (FGF) Receptor Isoforms Determines Metabolic Activity of FGF19 and FGF21. J Biol Chem. 282(37): 26687-26695. 2007 [5] Ogawa Y et al. BetaKlotho is required for metabolic activity of fibroblast growth factor 21 Proc Natl Acad Sci USA 104: 7432-7437, 2007. [6] Steven L. PELECH et al. Fibroblast growth factor treatment of Swiss 3T3 cells activates a subunit S6 kinase that phosphorylates a synthetic peptide substrate. Proc. Natl. Acad. Sci. USA Vol. 83, pp. 5968-5972, August 1986 [7] Rosa Carballada et al. Phosphatidylinositol-3 kinase acts in parallel to the ERK MAP kinase in the FGF pathway during Xenopus mesoderm induction. Development 128, 35-44 (2001) [8] Dayanand D. Deo et al. Phosphorylation of STAT-3 in Response to Basic Fibroblast Growth Factor Occurs through a Mechanism Involving Platelet-activating Factor, JAK-2, and Src in Human Umbilical Vein Endothelial Cells. The journal of molecular chemistry. Vol. 277, No. 24, Issue of June 14, pp. 21237-21245, 2002 [9] Maria I. Kontaridis et al. Role of SHP-2 in Fibroblast Growth Factor Receptor-Mediated Suppression of Myogenesis in C2C12 Myoblasts. Molecular and cellular biology, Vol. 22, No. 11, p. 3875-3891. 2002 [10] Dostálová I, Haluzíková D, Haluzík M. Fibroblast Growth Factor 21: A Novel Metabolic Regulator With Potential Therapeutic Properties in Obesity/Type 2 Diabetes Mellitus. Physiol. Res. 58: 1-7, 2009

NCBI AND UNIPROT INFORMATION

NCBI GI #	426389482
NCBI GeneID	101149990
NCBI GenBank Nucleotide #	XP_004061150.1
Molecular Weight	20kDa
NCBI Official Full Name	fibroblast growth factor 21
NCBI Official Symbol	FGF21
NCBI Protein Information	fibroblast growth factor 21

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/fibroblast-growth-factor-21-fgf-21-recombinant-protein-e-coli-wb-western-blot-elisa/60558>