

Recombinant FGF-21 with His-tag (Mouse)

Type:	Recombinant	Cat. No.:	42184
Tag:	His	Size:	0.1 mg
Source:	E.Coli	Purity:	>95%
Other names:	FGF21	Species:	Mouse

Introduction to the Molecule

FGF21, a polypeptide with 210 amino acid residues produced mostly from the liver tissue.[1] Mouse FGF21 shares 75% identity as human FGF21. Recent animal studies indicate it possesses potent beneficial effects on glucose and lipid metabolism and insulin sensitivity.[2] Increasing data shows FGF21 can significantly stimulate glucose uptake in mature adipocytes. And The lowered LDL-cholesterol and increased HDL-cholesterol can also be observed.[2,3] FGF21 exerts its bioactivity through interaction with membrane bound FGF receptors (FGFRs) which requires β -Klotho as a co-factor to bind and activate FGFR signaling.[4,5]The activation of FGF21 can induce the stimulation of diverse downstream pathways mediated by MAPK,FRS-2, SHP-2, PI3K, raf, stat and other signaling molecules.[6-9] In sum, FGF21 induces a variety of significant beneficial metabolic changes without apparent adverse effects which makes this factor a hot candidate to treat some metabolic diseases.[10]

Description

Total 207AA Mw: 23kDa (calculated). N-terminal His-tag and TEV cleavage site, 25 extra AA (highlighted).

Amino Acid Sequence

MSYYHHHHHH **DYDIPTTENL** **YFQGA** AY PIPDSSPLLQ FGGQVRQRYL
YTDDDQDTEA HLEIREDGTV VGAAHRSPES LLELKALKPG VIQILGVKAS
RFLCQQPDGA LYGSPHFDPE ACSFRELLE DGYNVYQSEA HGLPLRLPQK
DSPNQDATSW GPVRFLPMPG LLHEPQDQAG FLPPEPPDVG SSDPLSMVEP
LQGRSPSYAS

Formulation

Lyophilized in 1 mg/mL in PBS.

Reconstitution

Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

Storage

Store lyophilized protein at -20°C . Aliquot reconstituted protein and store at -80°C . Avoid repeated freezing /thawing cycles.

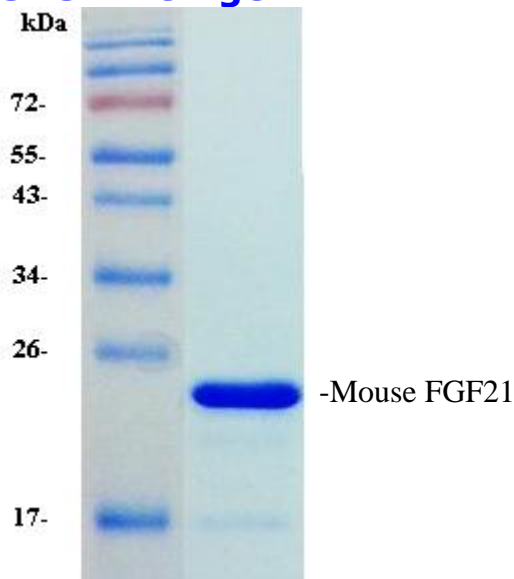
Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.

Applications

ELISA and Western blotting.

SDS-PAGE gel



Reference:

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