Recombinant human FGF-21 (L174P) protein

Catalog Number: ATGP3789

PRODUCT INFORMATION

Expression system
E.coli

Domain
29-209aa

UniProt No.
Q9NSA1

NCBI Accession No.
NP_061986

Alternative Names
Fibroblast growth factor 21

PRODUCT SPECIFICATION

Molecular Weight
21.6 kDa (202aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
FGF-21 is a unique member of FGF super family that is reported to be primarily produced by the liver. FGF-21 has recently been shown to have beneficial effects on a variety of metabolic parameters, including glucose and lipid metabolism and insulin sensitivity in animal models and is thought to exert potent antidiabetic and lipid-lowering agent of obesity and type 2 diabetes mellitus. FGF-21 activity depends on membrane protein beta

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Klotho that physically complexes with various FGF receptors, thus conferring them the ability to bind FGF-21 and activate downstream signaling pathways. Recombinant human FGF-21 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

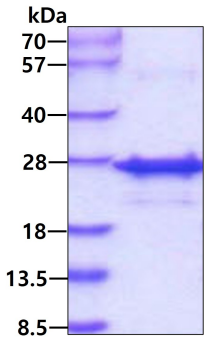
<MGSSHHHHHH SSGLVPRGSH> MHPIPDSSPL LQFGGQVRQR YLYTDDAQQT EAHLEIREDG TVGGAADQSP ESLLQLKALK PGVIQILGVK TSRFLCQRPD GALYGSLHFD PEACSFRELL LEDGYNVYQS EAHGLPLHLP GNKSPHRDPA PRGPARFLPL PGLPPAPPEP PGILAPQPPD VGSSDPLSMV GPSQGRSPSY AS

General References

Dostalova I., et al. (2009) Physiol Res. 58(1):1-7
Kharitonenkov A., et al. (2008) BioDrugs. 22(1):37-44.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.