

Product Datasheet

41189-01. Human Fibroblast Growth Factor-21(hFGF21), Tagless

Type: Recombinant Cat. No.: 41189-01 Tag: None (his-tag removed) Size: 0.1 mgE.Coli >90% Source: Purity: Other names: FGF21 Species: Human

Description

Total 183AA Mw: 19.5kDa (calculated). N-terminal His-tag removed, 2 extra AA left (highlighted).

Introduction

FGF-21, a polypeptide with 210 amino acid residues produced mostly from the liver tissue. Mouse FGF-21 shares 75% identity as human FGF-21. Recent animal studies indicate it possesses potent beneficial effects on glucose and lipid metabolism and insulin sensitivity. Increasing data shows FGF-21 can significantly stimulate glucose uptake in mature adipocytes. And the lowered LDL-cholesterol and increased HDL-cholesterol can also be observed. FGF-21 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. The activation of FGF-21 can induce the stimulation of diverse downstream pathways medicated by MAPK,FRS-2, SHP-2, PI3K, raf, stat and other signaling molecules. In sum, FGF-21 induces a variety of significant beneficial metabolic changes without apparent adverse effects which makes this factor a hot candidate to treat some metabolic diseases.

Amino Acid Sequence

GAHPIPDSSPLLQFGGQVRQRYLYTDDAQQTEAHLEIREDGTVGGAADQSPESLLQLKALKPGVI QILGVKTSRFLCQRPDGALYGSLHFDPEACSFRELLLEDGYNVYQSEAHGLPLHLPGNKSPHRDP APRGPARFLPLPGLPPALPEPPGILAPQPPDVGSSDPLSMVGPSQGRSPSYAS

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.

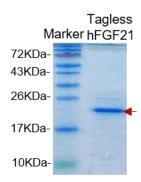
Storage: Store lyophilized protein at –20°C. Aliquot reconstituted protein and store at –80°C. Avoid repeated freezing /thawing cycles.

Applications: ELISA and Western blotting.

Quality Control Test

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

SDS-PAGE Gel



ImmunoDiagnostics Limited. 5/F, 11W, Hong Kong Science Park, Hong Kong Website: www.immunodiagnostics.com.hk.; Email: info@immunodiagnostics.com.hk; Tel: +852 3502 2780