

Datasheet for ABIN987848 FGF21 Protein



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Overview

Quantity:	20 µg
Target:	FGF21
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

Product Details

Sequence:	MHPIPDSSPL LQFGGQVRQR YLYTDDAQQT EAHLEIREDG TVGGAADQSPESLLQLKALK PGVIQILGVK TSRFLCQRPD GALYGSLHFD PEACSFRELLLEDGYNVYQS EAHGLPLHLP GNKSPHRDPA PRGPARFLPL PGLPPALPEPPGILAPQPPD VGSSDPLSMV GPSQGRSPSY A
Characteristics:	Fully biologically active when compared to standard. The ED50 determined by a cell proliferation assay using murine NIH/3T3 cells is less than 600 ng/ml, corresponding to a specific activity of $> 1.7 \times 10^3$ IU/mg in the presence of 5myg/ml of rMuKlotho-beta.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/µg of rHuFGF-21 as determined by LAL method

Target Details

Target:	FGF21
Alternative Name:	Fibroblast Growth Factor-21(FGF-21) (FGF21 Products)
Background:	Fibroblast growth factor 21 (FGF21) belongs to the large FGF family which has at least 23 members. All FGF family members are heparin binding growth factors with a core 120 amino

Target Details

acid (aa) FGF domain that allows for a common tertiary structure. FGFs are expressed during embryonic development and in restricted adult tissues. Four distinct but related classes of FGF receptors, FGF R1, 2, 3, and 4, exist. FGF-21, in the presence of betaKlotho as a protein cofactor, signals through the FGFR 1c and 4 receptors and stimulates insulin independent glucose uptake by adipocytes. Synonym: Fibroblast Growth Factor-21 (FGF-21), Human. Formulation: Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.

Molecular Weight: Approximately 19.5 kDa, a single non-glycosylated polypeptide chain containing 182 amino acids.

Pathways: [RTK Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions.

Storage: 4 °C