Rev03
Update: Dec,14,2021

DATASHEET

FGF-21, Mouse

Cat. No.: Z02942

Product Introduction

Species	Mouse
Protein Construction	**FGF-21 (Ala29-Ser210)** **Accession # Q9JJN1**
Purity	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
Endotoxin Level	< 1 EU/μg of protein by LAL method
Biological Activity	Fully biologically active when compared to standard. The ED_{50} as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 μg/ml, corresponding to a specific activity of > 2.0×10^3 IU/mg in the presence of 5.0 μg/ml of rMuKlotho-β and 10.0 μg/ml of heparin.
Expression System	E. coli
Theoretical Molecular Weight	19.9 kDa
Formulation	Lyophilized from a 0.2 μm filtered solution in 3 × PBS, pH 7.4.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Background

Target 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 acid (a.a.) 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.

Synonyms : FGF21; fibroblast growth factor-21; FGFL

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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