Rev07
Update: Sep,11,2025

DATASHEET

FGF-21, Mouse

Cat. No.: Z03290

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	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED_{50} < 0.5 μg/ml,measured by a cell proliferation assay using NIH-3T3 cells in the presence of 1.25 μg/ml mouse Klotho and 10.0 μg/ml heparin, corresponding to a specific activity of > 2.0×10^3 U/mg.
Expression System	E. coli
Apparent Molecular Weight	~19.9 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
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 ddH_2O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. 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. Along with FGF-19/15 and FGF-23, FGF-21 is categorized as a member of the atypical FGF subfamily, as it must be complexed to the Klotho co-receptor in order to bind to the FGF receptors and activate the downstream signaling pathway. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion.

Synonyms : FGF21; fibroblast growth factor-21; FGFL

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