

## FGF-21 Protein, Mouse, Recombinant

### General Information

Synonyms:	FGF21;FGFL;fibroblast growth factor-21
Protein Construction:	Ala29-Ser210
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9JJN1
Molecular Weight:	~19.9 kDa (Reducing conditions)

### QC Testing

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 <sup>3</sup> units/mg.
Purity:	> 97% as determined by SDS-PAGE; > 97% as determined by HPLC
Endotoxin:	< 0.2 EU/µg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 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.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

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