

## FGF-18 Protein, Mouse, Recombinant

### General Information

Synonyms: FGF-18;Fibroblast growth factor 18;zFGF5

Protein Construction: Glu28-Gly207

Species: Mouse

Expression Host: E. coli

Accession: O89101

Molecular Weight: 21 kDa (Predicted)

### QC Testing

Biological Activity: The ED 50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of  $2.0 \times 10^6$  IU/mg.

Purity: > 95% as determined by SDS-PAGE > 95% as determined by HPLC

Endotoxin: < 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.

Formulation: Lyophilized from a 0.2  $\mu$ m filtered solution in PBS, pH 7.4, 500 mM NaCl.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water or aqueous buffer containing 0.1 % BSA. The product concentration should not be less than 100  $\mu$ g/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:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

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

Murine FGF-18 is encoded by the FGF18 gene. By phylogenetic analysis and gene location analysis, FGF-18 is divided into FGF-8 subfamily which has three members FGF-8, FGF-17 and FGF-18. Using FGF knockout mice model, the numbers of this subfamily were testified that have crucial roles in embryo development. FGF-18<sup>-/-</sup> mice have decreased expression of osteogenic markers and delayed long-bone ossification. FGF-18 has been shown in vitro that this protein is able to induce neurite outgrowth in PC12 cells. In addition, it also has significant roles in lung development and has an anabolic effect on cartilage formation.

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