

FGF-18

Catalog # PVGS1663

Product Information

Primary Accession 089101
Species Mouse

Sequence Glu28-Gly207

Purity > 95% as analyzed by SDS-PAGE

> 95% as analyzed by HPLC

Endotoxin Level

Biological Activity The ED₅₀ 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 2.0×10^6 IU/mg.

Expression System E. coli

Theoretical Molecular Weight 21.0 kDa

Formulation Reconstitution

Lyophilized from a 0.2 Im filtered solution in PBS, pH 7.4, 500 mM NaCl. 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 -20°C or

-70°C. Upon reconstitution, the product should be stable for up to 1 week at

2-8°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID 14172

Other Names Fibroblast growth factor 18, FGF-18, zFGF5, Fgf18

Target 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-/- 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.

Protein Information

Name Fgf18

Function Plays an important role in the regulation of cell proliferation, cell

differentiation and cell migration. Required for normal ossification and bone development. Stimulates hepatic and intestinal proliferation (By similarity).

Cellular Location Secreted.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.