

FGF-18
Catalog # PVGS1663**Specification**

FGF-18 - Product Information

Primary Accession [O89101](#)
Species
Mouse

Sequence
Glu28-Gly207

Purity
> 95% as analyzed by SDS-PAGE
> 95% as analyzed by HPLC

Endotoxin Level
< 1 EU/ µg of protein by LAL method

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 × 10⁶ IU/mg.

Expression System
E. coli

Theoretical Molecular Weight
21.0 kDa

Formulation **Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4, 500 mM NaCl.**

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 -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.

FGF-18 - 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.

FGF-18 - 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.

FGF-18 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FGF-18 - Images