

# FGF-18

Catalog # PVGS1304

## Product Information

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| <b>Primary Accession Species</b> | <a href="#">O88182</a><br>Rat                                                                                                                                                                                                                                                                                            |
| <b>Sequence</b>                  | Glu28-Arg199                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>                    | > 95% as analyzed by SDS-PAGE<br>> 95% as analyzed by HPLC                                                                                                                                                                                                                                                               |
| <b>Endotoxin Level</b>           |                                                                                                                                                                                                                                                                                                                          |
| <b>Expression System</b>         | E. coli                                                                                                                                                                                                                                                                                                                  |
| <b>Formulation</b>               | Lyophilized after extensive dialysis against PBS.                                                                                                                                                                                                                                                                        |
| <b>Reconstitution</b>            | 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 <sub>2</sub> O up to 100 µg/ml.                                                                                                                                 |
| <b>Storage &amp; Stability</b>   | 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. |

## Additional Information

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| <b>Gene ID</b>           | 29369                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Other Names</b>       | Fibroblast growth factor 18, FGF-18, Fgf18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Target Background</b> | Fibroblast Growth Factor 18 (FGF-18) is a pleiotropic cytokine belonging to the heparin-binding FGF family, which has 23 different members. Structurally, FGF-18 is closely related to FGF-8 and FGF-17. Like other FGFs, FGF-18 can bind to different FGF receptors in vivo. FGF-18 is expressed in various tissues and has multiple functions: during long bone growth, FGF-18 is expressed in perichondrium and developing joints, and regulates bone formation by inhibiting chondrocyte proliferation and differentiation; FGF-18 knock-out mice survive embryonic development, but exhibit skeletal abnormalities and die in the early neonatal period. FGF-18 also induces ectopic cartilage formation in the lung, and alters the morphology of the pulmonary mesenchyma. |

## Protein Information

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| <b>Name</b>              | Fgf18                                                                                                                                                                                                                             |
| <b>Function</b>          | 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). |
| <b>Cellular Location</b> | Secreted.                                                                                                                                                                                                                         |
| <b>Tissue Location</b>   | Mainly expressed in the lung. Not detected in brain, heart, liver, kidney and small intestine                                                                                                                                     |

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