

# FGF-10

Catalog # PVGS1317

## Product Information

---

|                                  |  |
|----------------------------------|--|
| <b>Primary Accession Species</b> | <a href="#">O35565</a><br>Mouse  |
| <b>Sequence</b>                  | Ser62-Thr209   |
| <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

---

|                          |  |
|--------------------------|--|
| <b>Gene ID</b>           | 14165  |
| <b>Other Names</b>       | Fibroblast growth factor 10, FGF-10, Keratinocyte growth factor 2, Fgf10   |
| <b>Target Background</b> | Fibroblast Growth Factor-10 (FGF-10) is a mitogen mainly produced by mesenchymal stem cells in lung. FGF-10 belongs to the heparin binding FGF family, and is also known as Keratinocyte Growth Factor-2 (KGF-2). It shares homology with KGF, and both KGF and FGF-10 activate the receptor FGFR2-IIIb. However, unlike KGF, which induces the proliferation and differentiation of various epithelial cells, FGF-10 is an essential factor for the budding and branching morphogenesis during multi-organ development via mesenchymal-epithelial interactions. FGF-10 is crucial for lung and limb development and is regulated by Shh during early development. |

## Protein Information

---

|             |       |
|-------------|-------|
| <b>Name</b> | Fgf10 |
|-------------|-------|

|                          |   |
|--------------------------|---|
| <b>Function</b>          | Plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. Required for normal branching morphogenesis. May play a role in wound healing. |
| <b>Cellular Location</b> | Secreted.   |
| <b>Tissue Location</b>   | Expressed abundantly in embryos and the lung, and at much lower levels in brain and heart   |

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