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FGF-10

Catalog # PVGS1317

Specification

FGF-10 - Product Information

Primary Accession O35565

Species
Mouse

Sequence
Ser62-Thr209

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

Endotoxin Level
< 0.2 EU/ µg of protein by gel clotting method

Biological Activity
ED₅₀ < 10.0 ng/ml, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 1.0 × 10⁵ units/mg.

Expression System
E. coli

Formulation **Lyophilized after extensive dialysis against PBS.**

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 ddH_2O up to 100 µg/ml.

Storage & Stability
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.

FGF-10 - Additional Information

Gene ID 14165

Other Names
Fibroblast growth factor 10, FGF-10, Keratinocyte growth factor 2, Fgf10

Target Background
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.

FGF-10 - Protein Information

Name Fgf10

Function
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.

Cellular Location
Secreted.

Tissue Location
Expressed abundantly in embryos and the lung, and at much lower levels in brain and heart

FGF-10 - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FGF-10 - Images