

KGF/FGF-7
Catalog # PVGS1364**Specification**

KGF/FGF-7 - Product InformationPrimary Accession [P36363](#)**Species**
Mouse**Sequence**
Cys32-Thr194**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 < 2.0 ng/ml, measured by a cell proliferation assay using 4MBr-5 cells,
corresponding to a specific activity of > 5.0 × 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 PBS 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.**KGF/FGF-7 - Additional Information****Gene ID** 14178**Other Names**
Fibroblast growth factor 7, FGF-7, Heparin-binding growth factor 7, HBGF-7, Keratinocyte growth factor, KGF, Fgf7, Fgf-7, Kgf**Target Background**
Keratinocyte Growth Factor (KGF) is a highly specific epithelial mitogen produced by fibroblasts and mesenchymal stem cells. KGF belongs to the heparin binding Fibroblast Growth Factor (FGF) family, and is known as FGF-7. However, in contrast to FGF-1, which binds to all known FGF

receptors with high affinity, KGF only binds to a splice variant of the FGF receptor, FGFR2-IIIb. FGFR2-IIIb is expressed by most epithelial cells, indicating KGF's role as a paracrine mediator. KGF induces the differentiation and proliferation of various epithelial cells such as keratinocytes in the epidermis, hair follicles and sebaceous glands., KGF is also responsible for wound repair of various tissues including lung, bladder, and kidney.

KGF/FGF-7 - Protein Information

Name Fgf7

Synonyms Fgf-7, Kgf

Function

Plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. Required for normal branching morphogenesis. Growth factor active on keratinocytes. Possible major paracrine effector of normal epithelial cell proliferation (By similarity).

Cellular Location

Secreted.

KGF/FGF-7 - 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](#)

KGF/FGF-7 - Images