

**FGF-basic**  
**Catalog # PVGS1686****Specification**

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**FGF-basic - Product Information**

Primary Accession

[XP\\_035600424.1](#)**Species**

Salmon

**Sequence**

Full length

**Purity**

≥ 95% as analyzed by SDS-PAGE

**Endotoxin Level**

&lt; 0.2 EU/ µg of protein by gel clotting method

**Biological Activity**

EC<sub>50</sub> < 1.0 ng/ml as determined by a dose-response proliferation assay using murine Balb/c 3T3 cells. Based on the EC<sub>50</sub>, the calculated specific activity is approximately > 1.0 × 10<sup>6</sup> IU/mg. It is recommended to experimentally determine the optimal concentration for each specific application by performing a dose response assay.

**Expression System**

E. coli

**Theoretical Molecular Weight**

17.1 kDa

Formulation

**Lyophilized from a 0.2 µm filtered solution in 7.8 mM Na<sub>2</sub>HPO<sub>4</sub>, 1.5 mM KH<sub>2</sub>PO<sub>4</sub>, 2.7 mM KCl, 500 mM NaCl.****Reconstitution**

Before opening, centrifuge the vial briefly to bring the contents to the bottom. Reconstitute the lyophilized powder in PBS up to 100 µg/ml.

**Storage & Stability**

Upon receiving, the lyophilized product remains stable for up to 6 months at lower than -70 °C. Upon reconstitution, the product is stable for up to 1 week at 4 °C or up to 3 months at -20 °C. Avoid repeated freeze-thaw cycles by making single-use aliquots before the solution is storage at -20 °C.

**FGF-basic - Additional Information****Target Background**

Fibroblast Growth Factor-basic (FGF-basic), also known as FGF-2, is a pleiotropic cytokine and one of the prototypic members of the heparin-binding FGF family. Like other FGF family members, FGF-basic has the β trefoil structure. In vivo, FGF-basic is produced by a variety of cells, including

cardiomyocytes, fibroblasts, and vascular cells. FGF-basic regulates a variety of processes including cell proliferation, differentiation, survival, adhesion, motility, apoptosis, limb formation and wound healing. FGF-basic can be tumorigenic due to its role in angiogenesis and blood vessel remodeling. The angiogenic effects of FGF-basic can produce beneficial cardioprotection during acute heart injury.

## **FGF-basic - Protein Information**

## **FGF-basic - 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-basic - Images**