

## FGF-2 Protein, Salmon, Recombinant

### General Information

Synonyms:	FGF basic;FGF-2;FGFB;BFGF
Protein Construction:	Full length
Species:	Salmon
Expression Host:	E. coli
Accession:	XP_035600424.1
Molecular Weight:	17.1 kDa (Predicted); 20 kDa (Non-reducing conditions)

### QC Testing

Biological Activity:	EC 50 < 1.0 ng/ml as determined by a dose-response proliferation assay using murine Balb/c 3T3 cells. Based on the EC 50, 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.
Purity:	≥ 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/μg of protein as determined by the LAL method.
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.

### Preparation and Storage

#### 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.

#### Stability & Storage:

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.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481