

# FGF-basic

Catalog # PVGS1686

## Product Information

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<b>Primary Accession Species</b>	<a href="#">XP_035600424.1</a> Salmon
<b>Sequence</b>	Full length
<b>Purity</b>	≥ 95% as analyzed by SDS-PAGE
<b>Endotoxin Level Biological Activity</b>	EC <sub>50</sub> 50, the calculated specific activity is approximately $> 1.0 \times 10^6$ IU/mg. It is recommended to experimentally determine the optimal concentration for each specific application by performing a dose response assay.
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	17.1 kDa
<b>Formulation</b>	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.
<b>Reconstitution</b>	Before opening, centrifuge the vial briefly to bring the contents to the bottom. Reconstitute the lyophilized powder in PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	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.

## Additional Information

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<b>Target Background</b>	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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## Protein Information

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