

FGF-2 Protein, Bovine, Recombinant

General Information

Synonyms:	BFGF;HBGF-2;Prostatropin;FGFB;FGF-2;Fibroblast Growth Factor-basic
Protein Construction:	Pro10-Ser155
Species:	Bovine
Expression Host:	E. coli
Accession:	P03969
Molecular Weight:	~16.4 kDa (Reducing conditions)

QC Testing

Biological Activity:	ED 50 < 1.0 ng/ml, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 1.0 × 10 ⁶ units/mg.
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 PBS.

Preparation and Storage

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. (It is recommended to increase the concentration of NaCl in PBS to 300 mM)

Stability & Storage:

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.

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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