

DATASHEET

Version 20181206

FGF-basic (145aa), Human**Cat. No.:** Z03310-1**Size:** 1.0 mg**Synonyms:** Fibroblast Growth Factor-basic, FGF-2, HBGF-2, Prostatropin**Description:**

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.

Recombinant Human FGF-basic (145a.a.) produced in *E.coli* is a single non-glycosylated polypeptide chain containing 145 amino acids. A fully biologically active molecule, rhFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at Gen-

Script.

Source: *E. coli***Biological Activity:** ED₅₀ < 0.25 ng/mL, measured by the cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 4 × 10⁶ units/mg**Molecular Weight:** 16.4 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant Human FGF-basic (145a.a.) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human FGF-basic (145a.a.) should be stable up to 1 week at 4°C or up to 3 months at -20°C.