

Active Recombinant Human FGF2 Protein (145 aa)

Cat. No. FGF2-402F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	145
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.25 ng/mL, measured by the cell proliferation assay using 3T3 cells, corresponding to a specific activity of $> 4 \times 10^6$ units/mg

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Molecular Mass	16.4 kDa, observed by reducing SDS-PAGE.
AA Sequence	ALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLQA EERGVVSIKGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTYRSRKYTS WYVALKRTGQYKLGSKTGPQGQKAILFLPMSAKS
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Human FGF-basic (145a.a.) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human FGF-basic (145a.a.) should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 (basic) [Homo sapiens]
Official Symbol	FGF2
Synonyms	FGF2; fibroblast growth factor 2 (basic); FGFB; fibroblast growth factor 2; prostatropin; heparin-binding growth factor 2; basic fibroblast growth factor bFGF; BFGF; FGF-2; HBGF-2;
Gene ID	2247

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mRNA Refseq	NM_002006
Protein Refseq	NP_001997
MIM	134920
UniProt ID	P09038

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