

Product Datasheet

Recombinant FGF-basic(154aa), Human (orb1494866)

Catalog Number	orb1494866
Category	Proteins
Description	<p>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, bFGF has the β trefoil structure. In vivo, bFGF is produced by a variety of cells, including cardiomyocytes, fibroblasts, and vascular cells. bFGF regulates a variety of processes including cell proliferation, differentiation, survival, adhesion, motility, apoptosis, limb formation and wound healing. bFGF can be tumorigenic due to its role in angiogenesis and blood vessel remodeling. The angiogenic effects of bFGF can produce beneficial cardioprotection during acute heart injury. Recombinant human Fibroblast Growth Factor-basic (rhFGF-basic) produced in E.coli is a single non-glycosylated polypeptide chain containing 154 amino acids. A fully biologically active molecule, rhFGF-basic has a molecular mass of 17.1 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.</p>
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Buffer/Preservatives	Lyophilized after extensive dialysis against PBS.
Purity	> 95% by SDS-PAGE analysis.
Purification	> 95% by SDS-PAGE analysis.
Protein Sequence	<p>AAG SITTLPALPE DGGSGAFPPG HFKDPKRLYC KNGGFFLRIH PDGRVDGVRE KSDPHIKLQL QAEERGVSII KGVCANRYLA MKEDGRLLAS KCVTDECFFF ERLESNNYNT YRSRKYTSWY VALKRTGQYK LGSKTGPGQK AILFLPMSAK S</p>
MW	17.1 kDa, observed by reducing SDS-PAGE.

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Application notes	Reconstituted in ddH2O at 100 µg/mL.
Endotoxins	0.2 EU/µg, determined by LAL method.
Source	Escherichia coli.
Biological Activity	ED50 4×10^6 units/mg.
Storage	Lyophilized recombinant human Fibroblast Growth Factor-basic (rhFGF-basic) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhFGF-basic remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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