Product Datasheet

RecombinantFGF-basic,Rat (orb1494863)

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 cardiomycotes, 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 rat Fibroblast Growth Factor-basic (rrFGF-basic) produced in E.coli is a single non-glycosylated polypeptide chain containing 146 amino acids. A fully biologically active molecule, rrFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.
Endotoxins	< 0.2 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant rat Fibroblast Growth Factor-basic (rrFGF-basic) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rrFGF-basic remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only
Application notes	Reconstituted in ddH2O at 100 μg/mL.
Protein Sequence	GP ALPEDGGGAF PPGHFKDPKR LYCKNGGFFL RIHPDGRVDG VREKSDPHVK LQLQAEERGV VSIKGVCANR YLAMKEDGRL LASKCVTEEC FFFERLESNN YNTYRSRKYS SWYVALKRTG QYKLGSKTGP GQKAILFLPM SAKS
Purity	> 95% by SDS-PAGE analysis.
Source	Escherichia coli.

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MW	16.4 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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