

Product Datasheet

Recombinant FGF-18, Rat (orb1494882)

Description	Fibroblast Growth Factor 18 (FGF-18) is a pleiotropic cytokine belonging to the heparin-binding FGF family, which has 23 different members. Structurally, FGF-18 is closely related to FGF-8 and FGF-17. Like other FGFs, FGF-18 can bind to different FGF receptors in vivo. FGF-18 is expressed in various tissues and has multiple functions: during long bone growth, FGF-18 is expressed in perichondrium and developing joints, and regulates bone formation by inhibiting chondrocyte proliferation and differentiation; FGF-18 knock-out mice survive embryonic development, but exhibit skeletal abnormalities and die in the early neonatal period. FGF-18 also induces ectopic cartilage formation in the lung, and alters the morphology of the pulmonary mesenchyma. Recombinant rat Fibroblast Growth Factor 18 (rrFGF-18) produced in E.coli is a single non-glycosylated polypeptide chain containing of 172 amino acids. A fully biologically active molecule, rrFGF-18 has a molecular mass of 20.1 kDa analyzed by non-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 18 (rrFGF-18) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rrFGF-18 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	EEN VDFRIHVENQ TRARDDVSRK QLRLYQLYSR TSGKHIQVLG RRISARGEDG DKYAQLLVET DTFGSQVRIK GKETEFYLCM NRKGKLVGKP DGTSKECVFI EKVLENNYTA LMSAKYSGWY VGFTKKGRPR KGPKTRENQQ DVHFMKRYPK GQTELQKPFK YTTVTKRSR
Purity	> 95% as analyzed by SDS-PAGE and HPLC.

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Source	Escherichia coli.
MW	20.1 kDa, observed by non-reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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