

Overview

Synonyms	Fibroblast Growth Factor-18, zFGF5, FGFI
Description	Fibroblast Growth Factor-18 (FGF-18) is a heparin-binding growth factor that is a member of the FGF family. FGF-18 signals through FGFR 1c, 2c, 3c, and 4. FGF-18 plays an important role in the regulation of cell proliferation, cell differentiation and cell migration. FGF-18 is required for normal ossification and bone development. It can also stimulate hepatic and intestinal proliferation. Recombinant human Fibroblast Growth Factor-18 (rhFGF-18) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 174 amino acids. A fully biologically active molecule, rhFGF-18 has a molecular mass of 20.3 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 10 ng/ml, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 1.0× 10 ⁵ units/mg.
Sequence	MAEENVDFRI HVENQTRARD DVSRKQLRLY QLYSRTSGKH IQVLGRRISA RGEDGDKYAQ LLVETDTFGS QVRIKKGKETE FYLCMNRK GK LVGKPDGT SK ECVFIEK VLE NNYTALMSAK YSGWYVGF TK KGRPRKGP KT RENQQDVHFM KRYPKGQPEL QKPFKYTTVT KR SR

Properties

Measured Molecular Weight	20.3 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Fibroblast Growth Factor-18 (rhFGF-18) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhFGF-18 should be 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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