

Overview

Description	<p>Fibroblast Growth Factor 8f (FGF-8f) is a cytokine belonging to the heparin-binding FGF family, which has at least 23 members. FGF-8 has 8 different isoforms, named FGF-8a through FGF-8h. Different FGF-8 isoforms have different receptor affinities, and thus participate in different signaling cascade pathways. FGF-8 has widespread expression during embryonic development, promoting gastrulation, somitogenesis, morphogenesis, and limb formation. FGF-8 also has oncogenic potential. While in normal cells FGF-8 is expressed at very low levels, in breast, prostate and ovarian cancer FGF-8 is highly expressed. FGF-8 promotes tumor angiogenesis by increasing neovascularization, and inducing osteoblastic differentiation.</p> <p>Recombinant human Fibroblast Growth Factor 8f (rhFGF-8f) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 223 amino acids. A fully biologically active molecule, rhFGF-8f has a molecular mass of 25.5 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P55075
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 50ng/mL, measured by a cell proliferation assay using 3T3 cells in the presence of 10 µg/ml of heparin, corresponding to a specific activity of > 2 × 10 ⁴ units/mg.
Sequence	<p>MQEGPGRGPA LGRELASLFR AGREPQGVSQ QVTVQSSPNF TQHVREQSLV TDQLSRRLIR TYQLYSRTSG KHVQVLANKR INAMAEDGDP FAKLIVETDT FGSRVVRVGA ETGLYICMNK KGKLIAKSNG KGKDCVFTEI VLENNYTALQ NAKYEGWYMA FTRKGRPRKG SKTRQHOREV HFMKRLPRGH HTTEQSLRFE FLNYPPFTRS LRGSQRTWAP EPR</p>

Properties

Measured Molecular Weight	25.5 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE analysis.
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 8f (rhFGF-8f) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhFGF-8f 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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