

Overview

Synonyms	Fibroblast growth factor 8, FGF-8, Androgen-induced growth factor, AIGF, Heparin-binding growth factor 8, HBGF-8, Fgf8
Description	Fibroblast Growth Factor 8c (FGF-8c) is a cytokine belonging to the heparin-binding FGF family, which has at least 23 members. In different species, e.g. human and mouse, FGF-8 has 8 different isoforms, from FGF-8a to FGF-8h. Different FGF-8 isoforms have different affinities to the receptors, thus conduct different signaling cascade pathways. FGF-8 has very widespread expression pattern during embryonic development, and is an organizer and inducer for gastrulation, somitogenesis, morphogenesis, and limb induction. However, FGF-8 is also a potential oncogene: in normal adult cells, FGF-8 has very low expression; on the other hand, FGF-8 is highly expressed in cancer cells of breast, prostate, and ovarian tumors. FGF-8 promotes tumor angiogenesis by increasing neovascularization, and induces osteoblastic differentiation. Recombinant mouse Fibroblast Growth Factor 8c (rmFGF-8c) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 247 amino acids. A fully biologically active molecule, rmFGF-8c has a molecular mass of 28.2 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Accession No	P37237
Species	Mouse
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 150 ng/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 6.7 × 10 ³ units/mg.
Sequence	MQVRSAAQKR GPGAGNPADT LGQGHEDRPF GQSRAGKNF TNPAPNYPEE GSKEQRDSVL PKVTQRHVRE QSLVTDQLSR RLIRTYQLYS RTSGKHVQVL ANKRINAMAE DGDPFAKLIV ETDTFGSRVR VRGAETGLYI CMNKKGKLLIA KSNGKGKDCV FTEIVLENNY TALQNAKYEG WYMAFTRKGR PRKGSKTRQH QREVHFMKRL PRGHHTTEQS LRFEEFLNYPP FTRSLRGSQR TWAPEPR

Properties

Measured Molecular Weight	28.2 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 mouse Fibroblast Growth Factor 8c (rmFGF-8c) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmFGF-8c 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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