

DATASHEET Version 20181206

FGF-8f, Human

Cat. No.: Z03203-1

Size: 1.0 mg

Synonyms: Fibroblast Growth Factor-8f (FGF-8f), Human

Description:

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.

Recombinant human Fibroblast Growth Factor 8f (rhFGF-8f) produced in *E. coli* is a single nonglycosylated 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 at GenScript.

Amino Acid Sequence:

00001MQEGPGRGPALGRELASLFRAGREPQGVSQQVTVQSSPNF00041TQHVREQSLVTDQLSRRLIRTYQLYSRTSGKHVQVLANKR00081INAMAEDGDPFAKLIVETDTFGSRVRVRGAETGLYICMNK00121KGKLIAKSNGKGDCVFTEIVLENNYTALQNAKYEGWYMA00161FTRKGRPRKGSKTRQHQREVHFMKRLPRGHHTTEQSLRFE00201FLNYPPFTRSLRGSQRTWAPEPR

Source: E. coli

Species: Human

Biological Activity: $ED_{50} < 50$ mg/mL, measured by a cell proliferation assayusing 3T3 cellsin the presence of 10 µg/ml of heparin, corresponding to a specific activity of > 2× 10⁴ units/mg.

Molecular Weight: 25.5 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O at 100 μ g/mL.

Purity: > 95% by SDS-PAGE analysis.

Endotoxin Level: < 0.2 EU/ μ g, 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.

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