

DATASHEET Version 20181206

FGF-8f, Human

Cat. No.: Z03203-10

Size: 10.0 ug

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 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 at GenScript.

Amino Acid Sequence:

00001 MQEGPGRGPA LGRELASLFR AGREPQGVSQ QVTVQSSPNF 00041 TQHVREQSLV TDQLSRRLIR TYQLYSRTSG KHVQVLANKR 00081 INAMAEDGDP FAKLIVETDT FGSRVRVRGA ETGLYICMNK 00121 KGKLIAKSNG KGKDCVFTEI VLENNYTALQ NAKYEGWYMA 00161 FTRKGRPRKG SKTRQHQREV HFMKRLPRGH HTTEQSLRFE 00201 FLNYPPFTRS LRGSQRTWAP EPR

Source: E. coli Species: Human

Biological Activity: $ED_{50} < 50$ ng/mL, measured by a cell proliferation assayusing 3T3 cellsin the presence of 10 µg/ml of heparin, corresponding to a specific activity of > 2× 10^4 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 $\mu g/mL$.

Purity: > 95% by SDS-PAGE analysis.

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.