

DATASHEET
Version 20181206**FGF-8e, Human****Cat. No.:** Z03299-1**Size:** 1.0 mg**Synonyms:** Fibroblast Growth Factor-8, FGF-8e, AIGF, HBGF-8**Description:**

Fibroblast Growth Factor 8e (FGF-8e) 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 FGF-8e produced in *E. coli* is a single non-glycosylated polypeptide chain containing 212 amino acids. A fully biologically active molecule, rhFGF-8e has a molecular mass of 24.3 kDa analyzed by reducing SDS-PAGE and is obtained by

chromatographic techniques at GenScript.

Source: *E. coli***Biological Activity:** ED₅₀ < 2.5 µg/ml in the presence of 1 µg/mL heparin, measured in a cell proliferation assay using 3T3.**Molecular Weight:** 24.3 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant Human FGF 8e remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human FGF 8e should be stable up to 1 week at 4°C or up to 3 months at -20°C.