

Overview

Synonyms	Fibroblast Growth Factor-8, FGF-8e, AIGF, HBGF-8
Description	<p>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.</p> <p>Recombinant Human FGF-8e produced in <i>E. coli</i> 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.</p>
Accession No	P55075
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 2.5µg/ml in the presence of 1 µg/mL heparin, measured in a cell proliferation assay using 3T3.
Sequence	Gln ²³ -Arg ²³³ (Accession #:P55075), with an N-terminal Met

Properties

Measured Molecular Weight	24.3 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
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.
Note	For research use only

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