

## Overview

<b>Synonyms</b>	AIGFa; HBGF-8a
<b>Description</b>	<p><b>Fibroblast Growth Factor 8a (FGF-8a)</b> 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 affinities to the receptors, and thus participate in different signaling cascade pathways. FGF-8 has very widespread expression 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, but 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.</p> <p>Recombinant <b>human Fibroblast Growth Factor 8a (rhFGF-8a)</b> produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 183 amino acids. A fully biologically active molecule, rhFGF-8a has a molecular mass of 21.3 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
<b>Accession No</b>	P55075
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	ED <sub>50</sub> < 500 ng/mL, measured by a cell proliferation assay using 3T3 cells in the presence of 1 µg/ml of heparin, corresponding to a specific activity of > 2 × 10 <sup>3</sup> units/mg.
<b>Sequence</b>	<p>MQHVREQSLV TDQLSRRLIR TYQLYSRTSG KHVQVLANKR        INAMAEDGDP FAKLIVETDT FGSRVVRVGA ETGLYICMNK        KGKLIAKSNG KGKDCVFTEI VLENNYTALQ NAKYEGWYMA        FTRKGRPRKG SKTRQHOREV HFMKRLPRGH HTTEQSLRFE        FLNYPPFTRS LRGSQRTWAP EPR</p>

## Properties

<b>Measured Molecular Weight</b>	21.3 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% by SDS-PAGE analysis.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 µg/mL.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>human Fibroblast Growth Factor 8a (rhFGF-8a)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhFGF-8a remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only

India Contact:

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura,  
 Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com)

Web: [www.lifetechindia.com](http://www.lifetechindia.com)