



## Fibroblast Growth Factor-8, mouse recombinant (rmFGF8)

**Catalog No:** 97448  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Fibroblast growth factor 8, FGF-8, Androgen-induced growth factor, AIGF, Heparin-binding growth factor 8, HBGF-8, Fgf8

### Background

FGF8 is part of the fibroblast growth factor family. FGF family members have wide mitogenic and cell survival activities, and participate in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF8 supports androgen and anchorage independent growth of mammary tumor cells. FGF8 over expression increases tumor growth and angiogenesis. The adult expression of FGF-8 gene is restricted to testes and ovaries. FGF8 functions as an embryonic epithelial factor. FGF8 takes part in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination.

### Description

FGF-8 mouse recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 246 amino acids and having a molecular mass of 28.1 kDa. FGF-8 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

FGF-8 protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized FGF-8 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized FGF-8, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-8 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

QVRSAAQKRG PGAGNPADTL GQGHEDRPFG QRSRAGKNFT NPAPNYPEEG SKEQRDSVLP KVTQRHVREQ SLVTDQLSRR  
LIRTYQLYSR TSGKHVQVLA NKRINAMAED GDFPAKLIVE TDTFGSRVRV RGAETGLYIC MNKKGKLIK SNGKGDVCF  
TEIVLENNYT ALQNAKYEGW YMAFTRKGRP RKGSKTRQHQ REVHFMRKLP RGHHTTEQSL RFEFLNYPPF TRSLRGSQRT  
WAPPEPR

### Activity

The ED50, as determined by the dose-dependent a cell proliferation assay using NR6R-3T3 mouse fibroblast cells is <25 ng/ml in the presence of 0.1 µg/ml heprin, corresponding to a specific activity of >4.0 × 10<sup>4</sup> units/mg.

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### Usage

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