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**Product Data Sheet**


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Product Name: FGF 8 Mouse

Cat. No.: GP20225

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fibroblast growth factor 8; FGF-8; Androgen-induced growth factor; AIGF; Heparin-binding growth factor 8; HBGF-8; Fgf8.		
Amino Acid Sequence	QVRSAAQKRG PGAGNPADTL GQGHEDRPFG QRSRAGKNFT NPAPNYPEEG SKEQRDSVLP KVTQRHVREQ SLVTDQLSRR LIRTYQLYSR TSGKHVQVLA NKRINAMAED GDPFAKLIVE TDTFGSRVRV RGAETGLYIC MNKKGKLIK SNGKGGKDCVF TEIVLENNYT ALQNAKYEGW YMAFTRKGRP RKGSKTRQH Q REVHFMKRLP RGHHTTEQSL RFEFLNYPPF TRSLRGSQRT WAPEPR.		
Solubility	It is recommended to reconstitute the lyophilized FGF-8 in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	FGF-8 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

**Introduction**

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.

**Biological Activity**

The ED50, as determined by the dose-dependent a cell proliferation assay using NR6R-

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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3T3 mouse fibroblast cells is <25 ng/ml in the presence of 0.1 ug/ml heprin, corresponding to a specific activity of > 4.0×10<sup>4</sup> units/mg.

### 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.

### Background

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 28.1kDa. The FGF-8 is purified by proprietary chromatographic techniques.

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