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## Product Data Sheet

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Product Name: FGF 8 Mouse, 194 a.a.  
 Cat. No.: GP20224  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	FGF8B; FGF-8B; FGF8-B; KAL6; HBGF-8; HBGF8; AIGF; HBGF-8; MGC149376; fibroblast growth factor 8.		
Amino Acid Sequence	MQVTVQSSPN FTQHVREQSL VTDQLSRRLI RTYQLYSRTS GKHVQVLANK RINAMAEDGD		
Solubility	It is recommended to reconstitute the lyophilized FGF 8 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution containing 5mM Na <sub>3</sub> PO <sub>4</sub> and 50 mM NaCl, pH 7.5.		

### 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 activity is determined by its ability to induce proliferation of mouse 3T3 cells and is typically less than 20ng/ml corresponding to a specific activity of 50,000units/mg.

### Stability

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

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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.

### Background

FGF 8 Mouse Recombinant produced in E.Coli is a non-glycosylated polypeptide chain containing 194 amino acids and having a total molecular mass of 22.5kDa.

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