



# Product Data Sheet

## Recombinant Animal-Free Human / Mouse FGF-8

Catalog Number: 800-03AF

### Product Description

**Alternate Names:** Androgen-induced growth factor, AIGF, Heparin-binding growth factor 8, HBGF-8, FGF-8b isoform

**Accession Number:** P55075 / P37237

**Description:** Fibroblast growth factor 8 (FGF-8) is a critical mitogenic factor that is required for normal development of the eye, ear, brain, and limb. FGF-8 functions broadly to promote cell proliferation, differentiation, and migration. Overexpression of FGF-8 increases tumor growth and angiogenesis. Human and mouse FGF-8 proteins show 100% homology.

**Source:** Genetically modified *E.coli*. **This product is produced with no animal or human origin raw products. All processing and handling employs animal free equipment and animal free protocols.**

**Predicted MW:** Monomer, 22.5 kDa (with 194 amino acids)

**AA Sequence:** MQVTVQSSPN FTQHVREQLS VTDQLSRRLI RTYQLYSRTS GKHVQVLANK RINAMAEDGD PFAKLIVETD TFGSRVVRGAETGLYICMN KKGKLIASN GKGKDCVFTE IVLENNYTAL QNAKYEGWYM AFTRKGRPRK GSKTRQHQRE VHFMRKLRPG HHTTEQSLRFEFLNYPPFTR SLRGSQRTWA PEPR

**Formulation:** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% TFA

### Product Specifications\*

\*Lot-specific values for the following specifications are supplied with each production lot on its corresponding COA.

| Specification       | Method of Determination            | Acceptance Criteria   |
|---------------------|------------------------------------|---|
| Purity              | Reducing and Non-Reducing SDS-PAGE | ≥ 95%   |
| Endotoxin           | Kinetic LAL (50% confidence)       | ≤ 1 EUs/μg  |
| Biological Activity | 3T3 cell proliferation             | ED50 ≤ 150 ng/mL (≥ 6.7 x 10 <sup>3</sup> units/mg)<br>(typical ED50 is < 20 ng/mL) |

### Product Preparation and Storage

**Country of Origin:** USA      **Shipping:** Room temperature

**Storage Prior to Reconstitution:** -20°C

**Product Reconstitution:** Sterile water at 0.1 mg/mL

**Instructions:** Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws.

#### Expiration Date:

12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**