

Product Description

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

Accession/Uniprot 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*.

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

AA Sequence: MQVTVQSSPN FTQHVREQSL VTDQLSRRLI RTYQLYSRTS GKHVQVLANK RINAMAEDGD PFAKLIVETD TFGSRVVRVG AETGLYICMN KKGKLIAKSN GKGKDCVFTE IVLENNYTAL QNAKYEGWYM AFTRKGRPRK GSKTRQHQRE VHFMRKRLPRG HHTTEQSLRF EFLNYPFTR SLRGSQRTWA PEPR

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

Product Specifications

Specification	Method of Determination	Acceptance Criteria	Result
Purity	Reducing and Non-reducing SDS-PAGE	≥95%	>95%
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/ug	<0.05 EUs/ug
Biological Activity	NR6-R 3T3 cell proliferation	ED50 ≤ 150 ng/mL (≥6.7 x 10 ³ units/mg)	ED50 = 0.915 ng/ml (1.1 x 10 ⁶ units/mg)

Product Preparation and Storage

Country of Origin: USA **Shipping:** Room temperature **Storage Prior to Reconstitution:** -20°C

Reconstitution: Sterile water at 0.1 mg/mL **Date of Recon.:** _____ **Initials:** _____

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. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C, and avoid repeat freeze thaws.

Expiration Date: _____ **Date Received:** _____

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!

X *Olivia Schneider, PhD 2-19-18*

Quality Assurance