

## Product Description

**Alternate Names:** FGF2, HBGF-2, Prostatropin      **Accession/Uniprot Number:** P15655

**Description:** Basic fibroblast growth factor (FGF-basic), also known as FGF-2, is expressed by endothelial cells and is a mediator of angiogenesis. FGF-basic also has cardioprotective functions during heart injury. The application of FGF-basic is a critical component for human embryonic stem cell culture systems and is necessary for maintaining human embryonic stem cells in an undifferentiated state.

**Source:** Genetically modified *E.coli*.

**Predicted MW:** Monomer, 16.5 kDa (146 amino acids)

**AA Sequence:** MPALPEDGGA AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV DGVREKSDPH VKLQLQAEER GVVSIKGVCA NRYLAMKEDG RLLASKCVTE ECFFFERLES NNYNTYRSRK YSSWYVALKR TGQYKLGSKT GPGQKAILFL PMSAKS

**Formulation:** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5

## Product Specifications

Specification	Method of Determination	Acceptance Criteria	Result
<b>Purity</b>	Reducing and Non-reducing SDS-PAGE	≥95%	>95%
<b>Endotoxin</b>	Kinetic LAL (50% confidence)	≤ 1 EUs/ug	<0.05 EUs/ug
<b>Biological Activity</b>	NR6R-3T3 cell proliferation	ED50 ≤ 2.5 ng/mL (≥ 4.0 x 10 <sup>5</sup> units/mg)	ED50= 0.057 ng/mL (1.8 x 10 <sup>7</sup> units/mg)

Biological Activity results were updated from a previous result in NIH 3T3 cells at an ED50 of 0.5 ng/mL.

## 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. 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!**

*XOlivia Schneider, PhD 2-19-18*

Quality Assurance