

## GFM48 Recombinant Mouse FGF-1

### Description

Fibroblast Growth Factor 1 (FGF-1) is a potent inducer of DNA synthesis, cell proliferation, and has chemotactic activities. FGF-1 regulates cardiogenesis through protein kinase C signaling. FGF-1 also functions as an insulin sensitizer and mediates adipose tissue remodeling. Other homologous FGF belonging to the same family are FGF-3, FGF-5, FGF-6, K-FGF and FGF-7.

<b>Length</b>	141 aa
<b>Molecular Weight</b>	15.9 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P61148
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

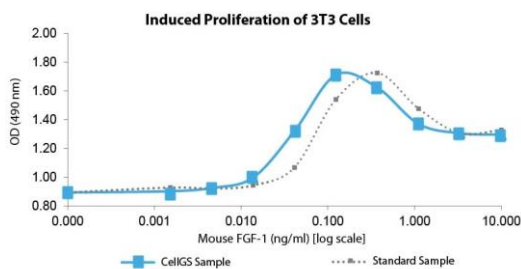
### Specifications

<b>Alternative Names</b>	Fibroblast Growth Factor 1, acidic Fibroblast Growth Factor, FGF1, HBGF-1, β-endothelial growth factor, ECGF, endothelial cell growth factor-β, ECGF-β, GLIO703, FGFA, ECGFA, HBGF, heparin-binding growth factor 1, AFGF, endothelial cell growth factor-α, ECGFB, FGF-α, aFGF
<b>Biological Activity</b>	Mouse FGF-1 is fully biologically active when compared to standard. The activity is determined by the proliferation of 3T3 cells.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 75 mM sodium chloride, pH 7.5
<b>AA Sequence</b>	MFNLPLGNYK KPQLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SAGEVYIKGT ETGQYLAMDT EGLLYGSQTP NEECLFLERL EENHYNTYTS KKHAEKNWFV GLKKNNGSCKR GPRTHYGQKA ILFLPLPVSS D

### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	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.

### Data



Induced proliferation of 3T3 cells assay in the presence of 10 μg/ml heparin for Mouse FGF-1. Cell proliferation was measured to calculate the ED50.