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Fgf1
Recombinant Rat/Mouse Fibroblast Growth Factor 1

Catalog No.	CRM424A	**Quantity:**	10 µg
	CRM424B		100 µg
	CRM424C		1 mg

Alternate Names: FGF-1, Acidic fibroblast growth factor, FGF-acidic, Heparin-binding growth factor 1, HBGF-1, Beta-endothelial growth factor, ECGF-beta

Description: Acidic fibroblast growth factor also known as FGF-1, is a potent inducer of DNA synthesis, cell proliferation, and has chemotactic activities. FGF-acidic regulates cardiogenesis through protein kinase C signaling. FGF-acidic also functions as an insulin sensitizer and mediates adipose tissue remodeling. High serum levels of FGF-acidic are associated with type 2 diabetes mellitus (T2DM), suggesting a pathogenic role of FGF-acidic during T2DM.

Gene ID: 25317, 14164

UniProt ID: P61149, P61148

Source: *E. coli*

Molecular Weight: Monomer, 15.9 kDa (141 aa)

Formulation: Lyophilized from a sterile-filtered solution containing 10 mM sodium phosphate, 75 mM sodium chloride, pH 7.5

Purity: ≥95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤1 EU/µg by kinetic LAL analysis

Biological Activity: Typical ED_{50} is < 0.1 ng/ml, determined by dose-dependent proliferation of 3T3 cells.

Amino Acid Sequence: MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SVGEVYIKST ETGQYLAMDT DGLLYGSQTP NEECLFLERL EENHYNTYIS KKHAEKNWFV GLKKNGSCKR GPRTHYGQKA ILFLPLPVSS D

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to reconstitute to a recommended concentration of 0.1 mg/mL and gently pipet solution up and down sides of vial. **DO NOT VORTEX.** Allow several minutes for reconstitution.

Storage & Stability: Store at 2-8°C for short term storage. Store as supplied for up to 1 year at -20°C to -80° C. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

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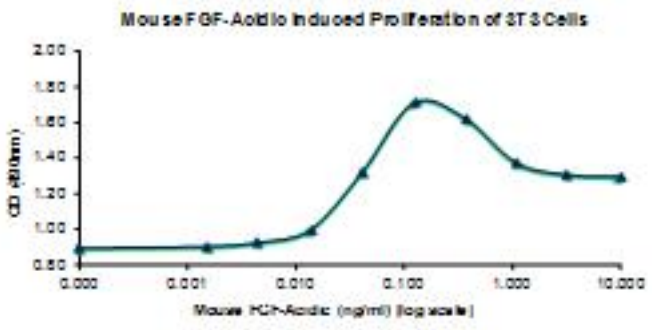

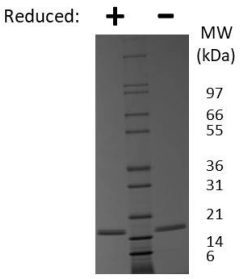

Mouse FGF-acidic / FGF-1 Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse FGF-acidic / FGF-1 is predicted to have a MW of 15.9 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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