

FGF1

Recombinant Human FGF-1, Animal Free

Catalog No.	CRH303A-AF	Quantity:	10 µg
	CRH303B-AF		100 µg
	CRH303C-AF		1 mg

Alternate Names: Fibroblast Growth Factor 1, 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: 2246

UniProt ID: P05230

Source: *E. coli*

Manufactured without Animal-derived products, in an Animal Free facility.

Molecular Weight: Monomer, 16 kDa (141 aa)

Formulation: Lyophilized from a sterile-filtered solution containing 10 mM sodium phosphate, 150 mM sodium sulfate, pH 7.5

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

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

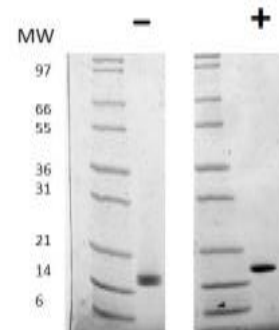
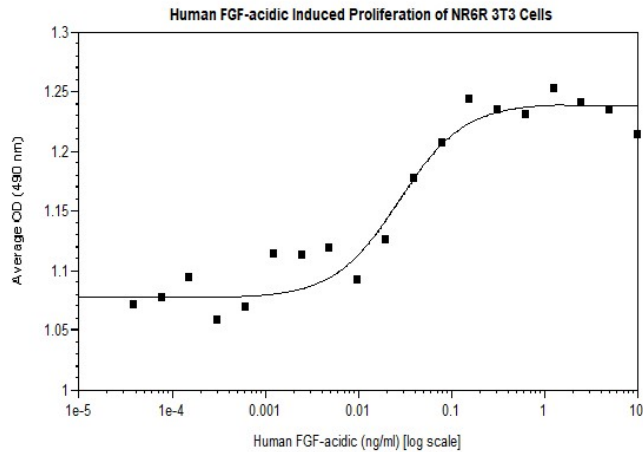
Biological Activity: Typical ED50 is < 1 ng/ml, measured in BALB/c 3T3 cell proliferation assay.

Specific Activity: ≥ 5.0 x 10⁵ U/mg

Amino Acid Sequence: MFNLPPGNYK KPKLLYCSNG GHFLRLPDG TVDGTRDRSD QHIQLQLSAE
SVGEVYIKST ETGQYLAMDT DGLLYGSQTP NEECLFLERL EENHYNTYIS
KKHAEKNWFV GLKKN GSCKR 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.**



Human FGF-acidic

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human FGF acidic has a predicted MW of 16kDa.

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