cellsciences.com

FGF1
Recombinant Human Fibroblast Growth Factor 1

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

Alternate Names: FGF1, 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*

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: ≥ 5.0×10^5 U/mg

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

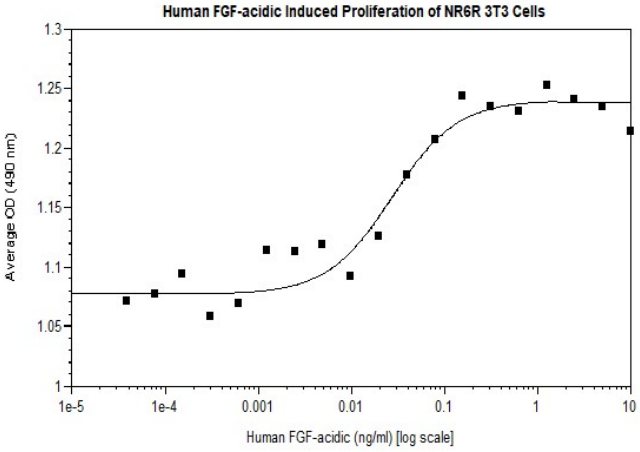
Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to reconstitute to a recommended concentration of 0.1 mg/mL and gently pipet solution up and down sides of vial. **DO NOT VORTEX**. Allow several minutes for reconstitution.

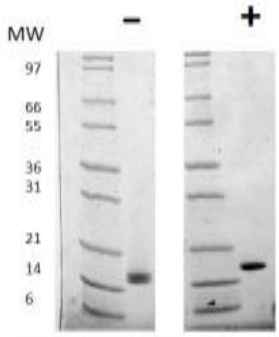
Storage & Stability: Store at 2-8°C for short term storage. Store as supplied for up to 1 year at -20°C to -80° C. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com





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.

® **Cell Sciences** ®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com