FGF2
Recombinant Human FGF-basic / FGF-2 (154 aa) Animal Free

Catalog No.	CRH304A-AF	**Quantity:**	10 µg
	CRH304B-AF		100 µg
	CRH304C-AF		1 mg
	CRH304E-AF		50 µg

Alternate Names: Fibroblast growth factor 2, FGF-2, Basic fibroblast growth factor, bFGF, Heparin-binding growth factor 2, HBGF-2

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. FGF-basic is a critical component for embryonic stem cell culture systems and is necessary for maintaining cells in an undifferentiated state. Recombinant FGF-basic 154 is the full length FGF-basic protein encoded by the human FGF-2 gene. There are no detectable differences in biological activity between FGF-basic 154 and the truncated FGF-basic 147 proteins.
Made in animal-free conditions without animal-derived components.

UniProt ID: P09038

Source: *E. coli*

Molecular Weight: Monomer, 17.3 kDa (155 aa)

Formulation: Lyophilized from 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

Biological Activity: $ED_{50} \leq 5$ ng/ml by dose-dependent 3T3 cell proliferation

Specific Activity: $\geq 2.0 \times 10^5$ U/mg

Amino Acid Sequence: MAAGSITTLP ALPEDGGSGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHI KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTDE CFFFERLESN NYNTYRSRKY TSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS

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. A small amount of precipitate may be seen.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for up to 1 month or prepare working aliquots and store at -20°C to -80°C for up to 3 months. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. **Avoid repeated freeze-thaw cycles.**

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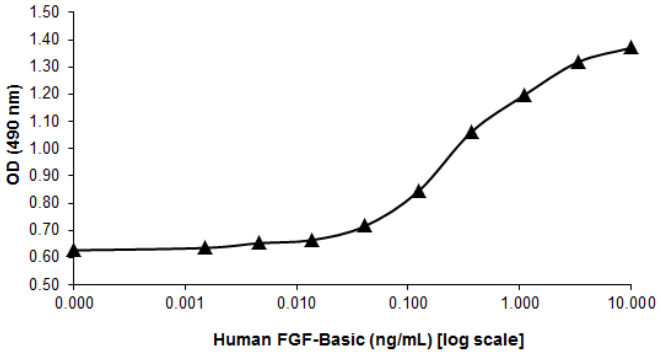
Human FGF-Basic Induced Proliferation of 3T3 Cells



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