

FGF2

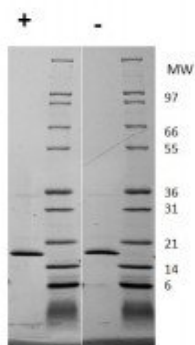
Recombinant Human FGF-basic 147 / FGF-2

Catalog No.	CRF001A CRF001B CRF001C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	Fibroblast growth factor 2, FGF-2, Basic fibroblast growth factor, bFGF, Heparin-binding growth factor 2, HBGF-2		
Description:	<p>Human Fibroblast Growth Factor basic, FGF-2, is a member of the FGF family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. FGF-2 is an extremely potent inducer of DNA synthesis in a variety of cell types from mesoderm and neuroectoderm lineages and has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, tumor growth and angiogenesis. Multiple forms of hFGF2 exist due to the use of alternative start sites within the FGF2 gene.</p> <p>Degradation of full-length FGF-basic occurs when the protein is isolated from biological sources, resulting in a shortened FGF-basic 147 aa protein. There are no detectable differences in biological activity between the full-length 154 aa and truncated 147 aa recombinant proteins.</p>		
Gene ID:	2247		
Uniprot ID:	P09038		
Source:	<i>E. coli</i>		
Molecular Weight:	16.5 kDa (147 aa) monomer		
Formulation:	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 75 mM sodium chloride, pH 7.5		
Purity:	≥95% by reducing and nonreducing SDS-PAGE		
Endotoxin Level:	≤1 EU/µg by kinetic LAL		
Biological Activity:	ED ₅₀ ≤ 1 ng/ml, determined by the dose-dependent proliferation of Balb/c 3T3 cells.		
Specific Activity:	≥ 2 x 10 ⁵ units/mg		
Amino Acid Sequence:	MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVRKESDP HIKLQLQAE E RGVVSIKGVC ANRYLAMKED GRLLASKCVT DECFFFERLE SNNYNTYRSR KYTSWYVALK RTGQYKLGSK TGPQKAILF LPMSAKS		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/ml. DO NOT VORTEX. Allow several minutes for complete reconstitution. Upon reconstitution, a small amount of precipitate can be expected. A 10% overfill has been added to the total material vialled to compensate for this loss.		



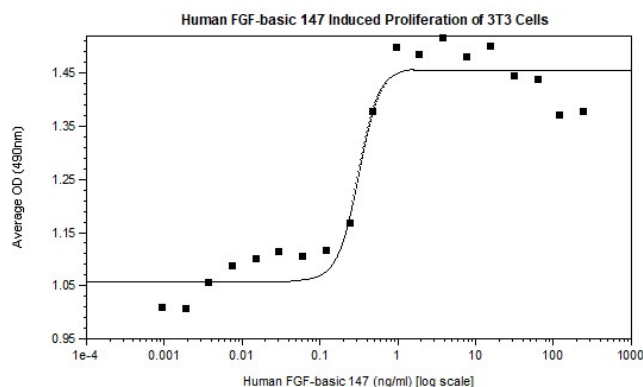
Storage & Stability:

Upon receipt, store as supplied at -20°C to -80°C for up to one year. **Upon reconstitution as directed**, the preparation is stable 1 month at 2-8 °C, 3 months at -20° C to -80 °C. **For long term storage** reconstitute in working aliquots containing 0.1% BSA and store at -80 °C. **Avoid repeated freeze-thaw cycles.**



Human FGF-basic-147

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 basic has a predicted MW of 16.5 kDa.



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