

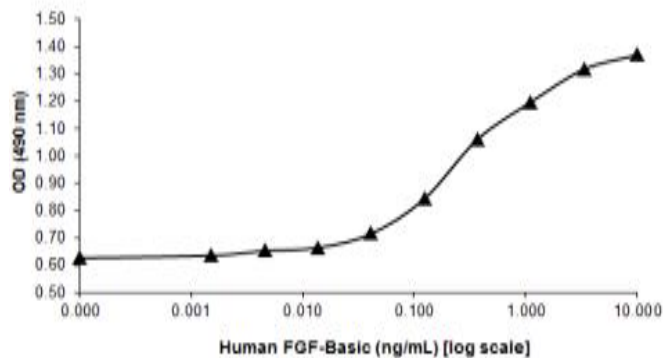
FGF2

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

Catalog No.	CRH304A-AF CRH304B-AF CRH304C-AF	Quantity:	10 µg 100 µg 1 mg
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.		
Gene ID:	2247		
UniProt ID:	P09038		
Source:	<i>E. coli</i>		
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 ≤ 5 ng/ml by dose-dependent 3T3 cell proliferation		
Specific Activity:	≥ 2.0 x 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.		



Human FGF-Basic Induced Proliferation of 3T3 Cells



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



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