

Active Recombinant Human FGF2 Protein (Formulation I- Animal Free-Ready-to-Use, 134-288, 154 amino acid)

Cat. No. FGF2-21H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF2 Protein (Formulation I- Animal Free-Ready-to-Use, 134-288, 154 amino acid) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	134-288, 154 amino acid
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.
Bio-activity	ED50= 0.1-1.0 ng/mL as determined by the dose dependent proliferation of NIH 3T3 cells.
Molecular Mass	17.3 kDa

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AA Sequence	AAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSD PHIKLQLQAEERGVSIGKVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNT YRSRKYTSWYVALKRTGQYKLGSKTGPQGKAILFLPMSAKS
Endotoxin	< 0.01 ng/μg cytokine as determined by the LAL assay
Purity	> 98% by SDS-PAGE
Usage	Useful for cell culture and for the study of signaling pathways.
Storage	Storage use a manual defrost freezer and avoid repeated freeze-thaw cycles. It is stable for 12 months from date of receipt at -20 to -80 centigrade or two weeks at 2 to 8 centigrade under sterile conditions.
Storage Buffer	Sterile filtered through a 0.22 micron filter with Tris buffer (10 mM Tris pH7.5, 150 mM NaCl).
Shipping	The product is shipped on dry ice.

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 [Homo sapiens (human)]
Official Symbol	FGF2
Synonyms	FGF2; fibroblast growth factor 2; BFGF; FGFB; FGF-2; HBGF-2; fibroblast growth factor 2; basic fibroblast growth factor bFGF; fibroblast growth factor 2 (basic); heparin-binding growth factor 2; prostatropin
Gene ID	2247

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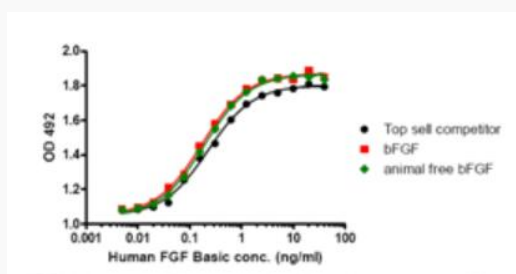
mRNA Refseq NM_002006

Protein Refseq NP_001997

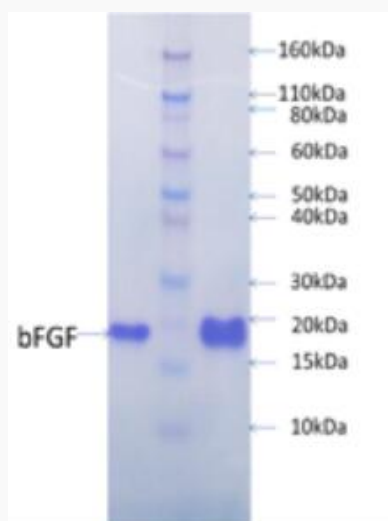
MIM 134920

UniProt ID P09038

Activity



SDS-PAGE



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