

Active Recombinant Human FGF2 Protein, Biotinylated

Cat. No. FGF2-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human FGF basic is expressed from E.coli. It contains AA Pro 143 - Ser 288 (Accession # NP_001997). The product does not contain any epitope tags.
Species	Human
Source	E.coli
ProteinLength	Pro143-Ser288
Form	Lyophilized from sterile 50 mM Tris, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1.iPSC-derived human vascular organoids (Day 7) were cultured with FGF2, VEGFA, EGF. Red arrows represent vascular organoids. Image taken at 10x magnification.(Routinely tested) 2.Measured in a cell proliferation assay using BALB/c 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 0.02-0.1 ng/ml.
Molecular Mass	The recombinant human bFGF consists of 147 amino acids and predicts a molecular mass of 16.5 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.

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Purity	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 (basic) [Homo sapiens]
Official Symbol	FGF2
Synonyms	FGF2; fibroblast growth factor 2 (basic); FGFB; fibroblast growth factor 2; prostatropin; heparin-binding growth factor 2; basic fibroblast growth factor bFGF; BFGF; FGF-2; HBGF-2;
Gene ID	2247
mRNA Refseq	NM_002006
Protein Refseq	NP_001997
MIM	134920
UniProt ID	P09038

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