

Active Recombinant Human fibroblast growth factor 2 Protein, His&Flag tagged

Cat. No. FGF2-049H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human FGF2/b-FGF protein (P09038) (Pro 143-Ser 288) with both His, Flag tag at the C-terminus was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	143-288aa
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.
Tag	C-His&Flag
Bio-activity	Measured in a cell proliferation assay using NIH/3T3 mouse fibroblast cells. The ED50 for this effect is ≤ 0.01 ng/mL.

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Molecular Mass	19.7 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 [Homo sapiens (human)]
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

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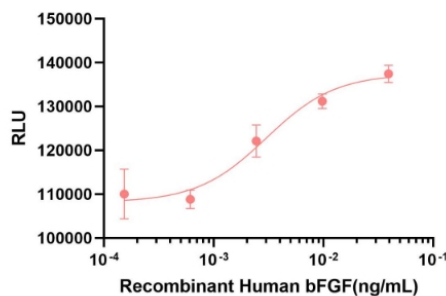
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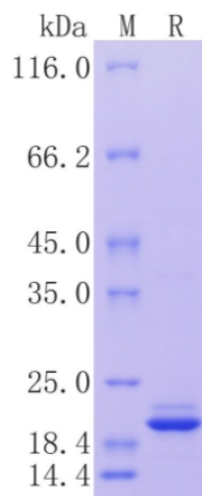
UniProt ID P09038

Activity



Measured in a cell proliferation assay using NIH/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is ≤ 0.01 ng/mL.

Protein on SDS-PAGE under reducing (R) condition.



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