

Active Recombinant Human FGF2 Protein, Pre-aliquoted

Cat. No. FGF2-15H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF2 Protein, Pro143 - Ser288, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Pro143-Ser288
Description	<p>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.</p>
Bio-activity	Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. The ED50 for this effect is 0.1-0.6 ng/mL.
Molecular Mass	<p>Predicted Molecular Mass:16.5 kDa SDS-PAGE: 17 kDa, reducing conditions</p>

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N-terminal Sequence Analysis	Ala-Pro143
Endotoxin	< 0.01 EU/μg of the protein by the LAL method.
Purity	> 97% by SDS-PAGE under reducing conditions and visualized by silver stain.
Stability	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 6 months from date of receipt at room temperature as supplied. • 12 months from date of receipt at 2-8 centigrade as supplied. • 1 month at 2-8 centigrade under sterile conditions after reconstitution. • 3 months at -20 to -80 centigrade under sterile conditions after reconstitution.
Reconstitution	For a stock solution, reconstitute at 50 μg/mL in sterile PBS, or simply roll ProDot directly into cell culture medium for immediate use.
Shipping	The product is shipped at ambient temperature.

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
mRNA Refseq	NM_002006

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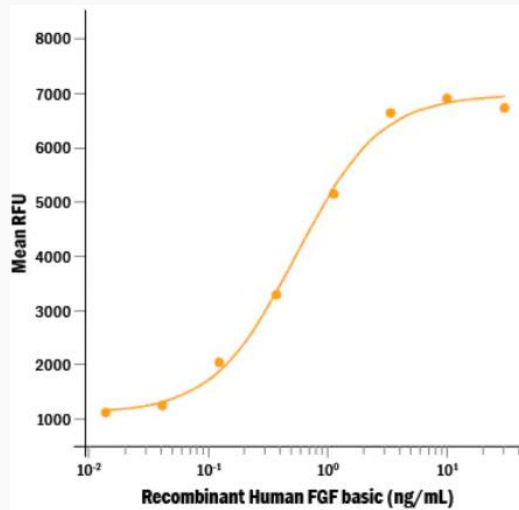
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Protein Refseq NP_001997

MIM 134920

UniProt ID P09038

Bio-activity



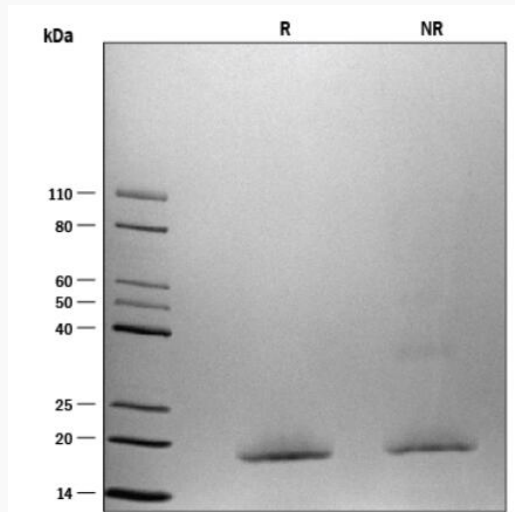
Recombinant Human FGF basic/FGF2 stimulates cell proliferation of the NR6R-3T3 mouse fibroblast cell line. The ED50 for this effect is 0.1-0.6 ng/mL.

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SDS-PAGE



1 μ g/lane of Recombinant Human FGF basic/FGF2 was resolved with SDS-PAGE under reducing (R) and non-reducing(NR) conditions and visualized with silver staining, showing a single band at 17 kDa.

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