

Active Recombinant Human FGF10 Protein, Pre-aliquoted

Cat. No. FGF10-26H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF10 Protein, Cys37 - Ser208 & Gly41 - Ser208, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Cys37-Ser208 & Gly41-Ser208
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein exhibits mitogenic activity for keratinizing epidermal cells, but essentially no activity for fibroblasts, which is similar to the biological activity of FGF7. Studies of the mouse homolog of suggested that this gene is required for embryonic epidermal morphogenesis including brain development, lung morphogenesis, and initiation of limb bud formation. This gene is also implicated to be a primary factor in the process of wound healing.
Bio-activity	Measured in a cell proliferation assay using 4MBr-5 rhesus monkey epithelial cells. The ED50 for this effect is 20-100 ng/mL.
Molecular Mass	Predicted Molecular Mass:19.5 kDa

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N-terminal Sequence Analysis	Cys37 & Gly41
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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. • 6 months from date of receipt at room temperature. • 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 100 μg/mL in sterile PBS, or simply roll Pre-aliquoted directly into cell culture medium for immediate use.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	FGF10 fibroblast growth factor 10 [Homo sapiens (human)]
Official Symbol	FGF10
Synonyms	FGF10; fibroblast growth factor 10; fibroblast growth factor 10; FGF-10; keratinocyte growth factor 2; produced by fibroblasts of urinary bladder lamina propria
Gene ID	2255
mRNA Refseq	NM_004465

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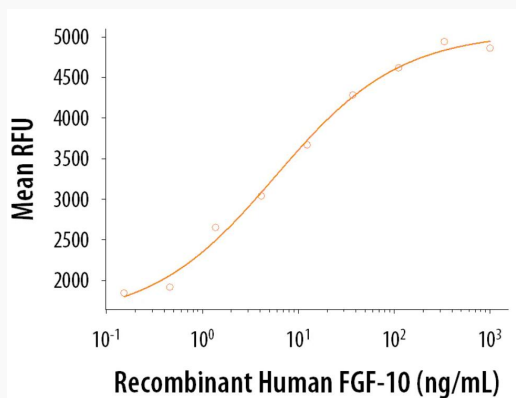
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Protein Refseq NP_004456

MIM 602115

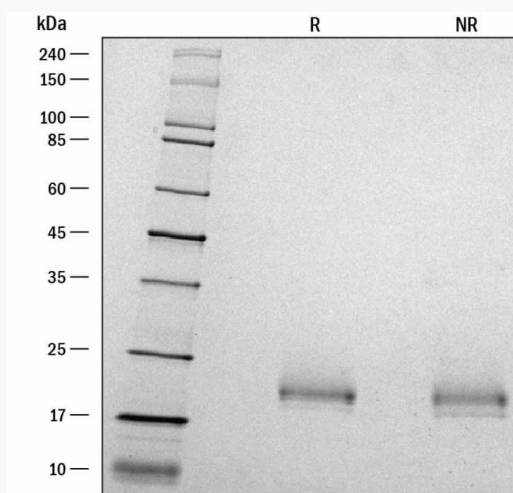
UniProt ID O15520

Bio-activity



Recombinant Human FGF-10 stimulated cell proliferation of the 4MBr-5 rhesus monkey epithelial cell line. The ED50 for this effect is 20-100 ng/mL.

SDS-PAGE



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1 µg/lane of Recombinant Human FGF-10 was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized with silver staining, showing a single band at 21 kDa.

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