

Active Recombinant Human FGF2 Protein (Pro143-Ser288), GMP Grade, Animal-Free

Cat. No. FGF2-33HG Lot. No. (See product label)

SPECIFICATION

Product Overview

GMP recombinant human FGF basic/FGF2 protein (Pro143-Ser288, 145 aa) without tag was expressed in E. coli, produced in an Animal-Free laboratory and manufactured and tested under cGMP guidelines.

Species

Human

Source

E.coli

ProteinLength

Pro143-Ser288

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

Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. The ED50 for this effect is 0.1-0.6 ng/mL.

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Molecular Mass	Predicted Molecular Mass: 16 kDa
N-terminal Sequence Analysis	Pro143-Ala-Leu-Pro-Glu-Asp-Gly-Gly-Ser-Gly Ala144-Leu-Pro-Glu-Asp-Gly-Gly-Ser-Gly-Ala
Endotoxin	<0.01 EU/ µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE with silver staining, under reducing conditions.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in Tris-HCl and NaCl.
Reconstitution	Reconstitute at 100 µg/mL in PBS.
Shipping	The product is shipped with polar packs.

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;

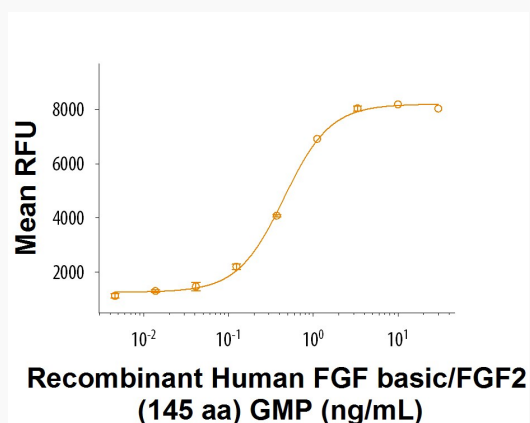
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Gene ID	2247
mRNA Refseq	NM_002006
Protein Refseq	NP_001997
MIM	134920
UniProt ID	P09038

Bioactivity

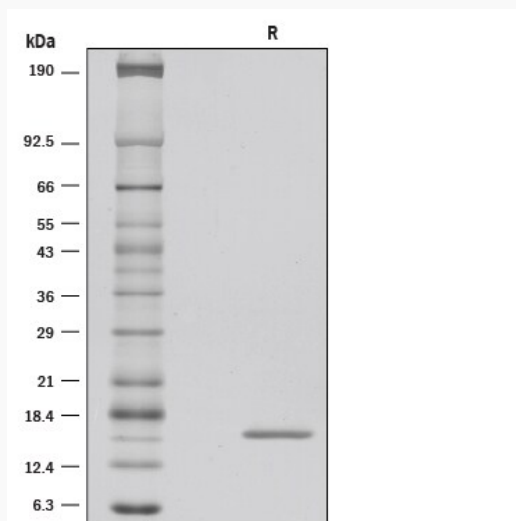


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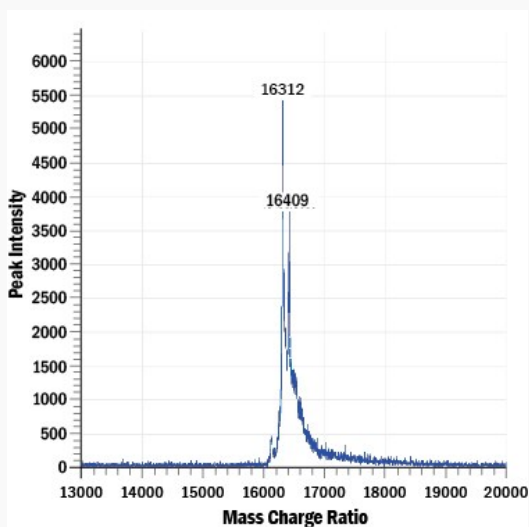
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SDS-PAGE



Mass Spectrometry



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