

Active Recombinant Human FGF3 Protein, Pre-aliquoted

Cat. No. FGF3-03H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF3 Protein, Asp28 - Arg212, with an N-terminal Met, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asp28-Arg212, with an N-terminal Met
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 gene was identified by its similarity with mouse fgf3/int-2, a proto-oncogene activated in virally induced mammary tumors in the mouse. Frequent amplification of this gene has been found in human tumors, which may be important for neoplastic transformation and tumor progression. Studies of the similar genes in mouse and chicken suggested the role in inner ear formation.
Bio-activity	Measured in a cell proliferation assay using NR6R-3T3 mouse fibroblast cells. The ED50 for this effect is 0.02-0.1 µg/mL in the presence of 1 µg/mL of heparin.
Molecular Mass	Predicted Molecular Mass:21.1 kDa
N-terminal Sequence	Met

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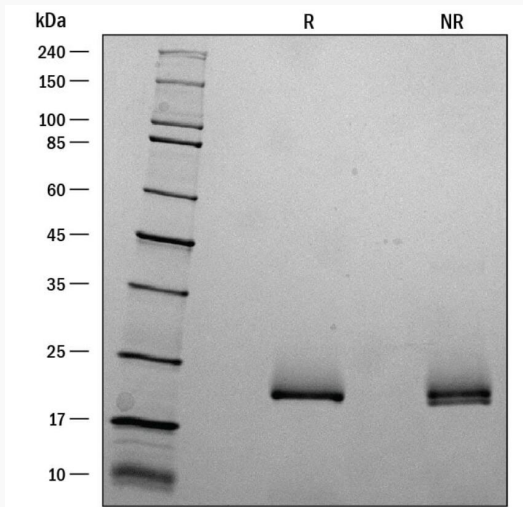
 45-1 Ramsey Road, Shirley, NY 11967, USA

Analysis	
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 to the medium for immediate use.
Shipping	The product is shipped at ambient temperature.
GENE INFORMATION	
Gene Name	FGF3 fibroblast growth factor 3 [Homo sapiens (human)]
Official Symbol	FGF3
Synonyms	FGF3; fibroblast growth factor 3; INT2; HBGF-3; fibroblast growth factor 3; FGF-3; INT-2 proto-oncogene protein; V-INT2 murine mammary tumor virus integration site oncogene homolog; fibroblast growth factor 3 (murine mammary tumor virus integration site (v-int-2) oncogene homolog); heparin-binding growth factor 3; murine mammary tumor virus integration site 2, mouse; oncogene INT2; proto-oncogene Int-2
Gene ID	2248

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mRNA Refseq	NM_005247
Protein Refseq	NP_005238
MIM	164950
UniProt ID	P11487
Bio-activity	Recombinant Human FGF-3 stimulated cell proliferation of the NR6R-3T3 mouse fibroblast cell line. The ED50 for this effect is 0.02-0.1 µg/mL.
SDS-PAGE	 1 µg/lane of Recombinant Human FGF-3 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.