Recombinant Human Fibroblast Growth Factor 22

Cat. No. FGF22-563H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF-22 is a nonglycosylated polypeptide protein consisting of 149 amino acids and a molecular weight of 17.3 kDa.
Species	Human
Source	E.coli
Description	Human FGF-22 is a member of the FGF-7 subfamily of growth factors. Human FGF-22 shares 86% homology to Mouse FGF-22, and is synthesized by multiple cell lines including neurons, keratinocytes and skeletal muscle myotubes. It is believed to function as an organizer of the presynaptic apparatus.
Form	Lyophilized with no additives.
Purity	Purity Greater than 97% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1mg/ml, which can then be further diluted to other aqueous solutions.

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Purity Greater than 97% as determined by	Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Protein Content determined by	UV spectroscopy at 280 nm. Quantitation on SDS-PAGE against a known standard.
Endotoxin Level	Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.
Amino acid sequence	MTPSASRGPR SYPHLEGDVR WRRLFSSTHF FLRVDPGGRV QGTRWRHGQD SILEIRSVHV GVVVIKAVSS GFYVAMNRRG RLYGSRLYTV DCRFRERIEE NGHNTYASQR WRRRGQPMFL ALDRRGGPRP GGRTRRYHLS AHFLPVLVS
Storage	Lyophilized H-FGF-22 should be stored desiccated below -18°C. Upon reconstitution the product should be aliquoted and stored at below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Pathways	MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton

GENE INFORMATION

Gene Name	FGF22 fibroblast growth factor 22 [Homo sapiens]
Official Symbol	FGF22
Synonyms	FGF22; fibroblast growth factor 22; FGF-22
Gene ID	27006
mRNA Refseq	NM_020637

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Protein Refseq	NP_065688
MIM	605831
UniProt ID	Q9HCT0
Chromosome Location	19p13.3
Function	growth factor activity

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