

Recombinant Full Length Human GRN Protein, C-Flag-tagged

Cat. No. GRN-844HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GRN Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Granulins are a family of secreted, glycosylated peptides that are cleaved from a single precursor protein with 7.5 repeats of a highly conserved 12-cysteine granulin/epithelin motif. The 88 kDa precursor protein, progranulin, is also called proepithelin and PC cell-derived growth factor. Cleavage of the signal peptide produces mature granulin which can be further cleaved into a variety of active, 6 kDa peptides. These smaller cleavage products are named granulin A, granulin B, granulin C, etc. Epithelins 1 and 2 are synonymous with granulins A and B, respectively. Both the peptides and intact granulin protein regulate cell growth. However, different members of the granulin protein family may act as inhibitors, stimulators, or have dual actions on cell growth. Granulin family members are important in normal development, wound healing, and tumorigenesis.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	61.7 kDa
AA Sequence	MWTLVSWVALTAGLVAGTRCPDGQFCPVACCLDPGGASYSCCRPLLDKWPTTLR HLGGPCQVDAHCSAG HSCIFTVSGTSSCCPFPEAVACGDGHHCCPRGFHCSADG

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RSCFQRSGNNSVGAIQCPDSQFECPDFSTCC VMVDGSWGCCPMPQASCCEDRV
HCCPHGAFCDLVHTRCITPTGTHPLAKKLPAQRTNRAVALSSSVMCPD ARSRCPD
GSTCCELPSPGKYGCCPMPNATCCSDHLHCCPQDTVCDLIQSKCLSKENATTDLLTK
LPAHTVG DVKCDMEVSCPDGYTCCRLQSGAWGCCPFTQAVCCEDHIHCCPAGFT
CDTQKGTCEQGPHQVPWMEKAPA HLSLPDPQALKRDVPCDNVSSCPSSDTCCQL
TSGEWGCCPIPEAVCCSDHQHCCPQGYTCVAEGQCQRGS EIVAGLEKMPARRAS
LSHPRDIGCDQHTSCPVGQTCCPSLGGSWACCQLPHAVCCEDRQHCCPAGYTCN
V KARSCEKEVVSAQPATFLARSPHVGKDVCEGEGHFCHDNQTCCRDNRQGWAC
CPYRQGVCCADRRHCCP
AGFRCAARGTKCLRREAPRWDAPLRDPALRQLLTRTRPLEQKLISEEDLAANDILDY
KDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein
Full Length	Full L.

GENE INFORMATION

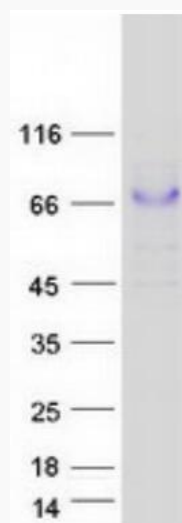
Gene Name GRN granulin precursor [Homo sapiens (human)]

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Official Symbol	GRN
Synonyms	GEP; GP88; PEPI; PGRN; CLN11; PCDGF
Gene ID	2896
mRNA Refseq	NM_002087.4
Protein Refseq	NP_002078.1
MIM	138945
UniProt ID	P28799



Coomassie blue staining of purified GRN protein.