

Recombinant Human GRN Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. GRN-041H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GRN MS Standard C13 and N15-labeled recombinant protein (NP_002078) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	63.5 kDa
AA Sequence	MWTLVSWVALTAGLVAGTRCPDGQFCPVACCLDPGGASYSCCRPLLDKWPTTLR HLGGPCQVDAHCSAGHSCIFTVSGTSSCCPFPEAVACGDGHHCCPRGFHCSADGR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

SCFQRSGNNSVGAIQCPDSQFECPDFSTCCVMVDGSGGCCPMPQASCCEDRVHC
 CPHGAFCDLVHTRCITPTGTHPLAKKLPARTNRAVALSSVMCPDARSRCPDGST
 CCELPSTGKYGCCPMPNATCCSDHLHCCPQDTVCDLIQSKCLSKENATDILLTKLPA
 HTVGDVKCDMEVSCPDGYTCCRLQSGAWGCCPFTQAVCCEDHIHCCPAGFTCDT
 QKGTCEQGPVWMEKAPAHLSLPDPQALKRDVPCDNVSSCPSSDTCCQLTSG
 EWGCCPIPEAVCCSDHQHCCPQGYTCVAEGQCQRGSEIVAGLEKMPARRASLSHP
 RDIGCDQHTSCPVGQTCCPSLGGSWACCQLPHAVCCEDRQHCCPAGYTCNVKAR
 SCEKEVVSAPATFLARSPHVGVKDVCEGEGHFCHDNQTCCRDNRQGWACCPYR
 QGVCCADRRHCCPAGFRCAARGTKCLRREAPRWDAPLRDPALRQLLTRTRPLEQK
 LISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol GRN

Synonyms GRN; granulin precursor; CLN11; GEP; GP88; PCDGF; PEPI; PGRN; progranulin; PC cell-derived growth factor; acrogranin; epithelin; glycoprotein 88; glycoprotein of 88 Kda; granulin-epithelin; granulins; proepithelin;

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Gene ID	2896
mRNA Refseq	NM_002087
Protein Refseq	NP_002078
MIM	138945
UniProt ID	P28799
SDS-PAGE	