

Recombinant Full Length Human GRN Protein, GST-tagged

Cat. No. GRN-5599HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GRN full-length ORF (NP_002078.1, 1 a.a. - 593 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	593 amino acids
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. [provided by RefSeq
Molecular Mass	89.9 kDa
AA Sequence	MWTLVSWVALTAGLVAGTRCPDGQFCPVACCLDPGGASYSCCRPLLDKWPTTLR

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HLGGPCQVDAHCSAGHSCIFTVSGTSSCCPFPEAVACGDGHHCCPRGFHCSADGR
SCFQRSGNNSVGAIQCPDSQFECPDFSTCCVMVDGSGGCCPMPQASCCEDRVHC
CPHGAFCDLVHTRCITPTGTHPLAKKLPARTNRAVALSSSV MCPDARSRCPDGST
CCELP SGKYGCCPMPNATCCSDHLHCCPQDTVCDLIQSKCLSKENATD LLLTKLPA
HTVGDVKCDMEVSCPDGYTCCRLQSGAWGCCPFTQAVCCEDHIHCCPAGFTCDT
QKGTCEQGP HQVPWMEKAPAHLSLPDPQALKRDVPCDNVSSCPSSDTCCQLTSG
EWGCCPIPEAVCCSDHQHCCPQGYTCVAEGQCQRGSEIVAGLEKMPARRASLSHP
RDIGCDQHTSCPVGQTCCPSLGGSWACCQLPHAVCCEDRQHCCPAGYTCNVKAR
SCEKEVVSAQPATFLARSPHVGVKDVECGEGHFCHDNQTCCRDNRQGWACCPYR
QGVCCADRRHCCPAGFRCAARGTKCLRREAPRWDAPLRDPALRQLL

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

GRN granulin [Homo sapiens]

Official Symbol

GRN

Synonyms

GRN; granulin; granulins; CLN11; PCDGF; PGRN; progranulin; acrogranin;
proepithelin; granulin-epithelin; PC cell-derived growth factor; GEP; GP88; PEPI;

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

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