

Recombinant Human GRN Protein, GST-tagged

Cat. No. GRN-5375H 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	Wheat Germ
Description	<p>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]</p>
Molecular Mass	89.9 kDa
AA Sequence	MWTLVSWVALTAGLVAGTRCPDGQFCPVACCLDPGGASYSCCRPLLDKWPTLSR HLGGPCQVDAHCSAGHSCIFTVSGTSSCCPFPEAVACGDGHHCCPRGFHCSADGR

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SCFQRSGNNSVGAIQCPDSQFECPDFSTCCVMVDGSWGCCPMPQASCCEDRVHC
 CPHGAFCDLVHTRCITPTGTHPLAKKLPARTNRAVALSSSVMCPDARSRCPDGST
 CCELPSGKYGCCPMPNATCCSDHLHCCPQDTVCDLIQSKCLSKENATDLLTKLPA
 HTVGDVKCDMEVSCPDGYTCCRLQSGAWGCCPFTQAVCCEDHIHCCPAGFTCDT
 QKGTCEQGPHQVPWMEKAPAHLSLPDPQALKRDVPCDNVSSCPSSDTCCQLTSG
 EWGCCPIPEAVCCSDHQHCCPQGYTCVAEGQCQRGSEIVAGLEKMPARRASLSHP
 RDIGCDQHTSCPVGQTCCPSLGGSWACCQLPHAVCCEDRQHCCPAGYTCNVKAR
 SCEKEVVSAQPATFLARSPHVGVKDVCEGEGHFCHDNQTCCRDNRRQGWACCPYR
 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;

Gene ID [2896](#)

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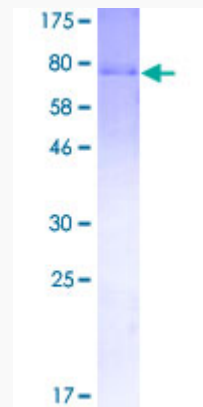
mRNA Refseq [NM_002087](#)

Protein Refseq [NP_002078](#)

MIM [138945](#)

UniProt ID [P28799](#)

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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