

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	<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

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HLGGPCQVDAHCSAGHSCIFTVSGTSSCCPFPEAVACGDGHHCCPRGFHCSADGR
 SCFQRSGNNSVGAIQCPDSQFECPDFSTCCVMVDGSWGCCPMPQASCCEDRVHC
 CPHGAFCDLVHTRCITPTGTHPLAKKLPARTNRAVALSSSV MCPDARSRC PDGST
 CCELP SGKYGCCPMPNATCCSDHLHCCPQDTVCDLIQSKCLS KENATDLLTKLPA
 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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