

Recombinant Human Granulin, His-tagged

Cat. No. GRN-113H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human granulin encoding the human Pro-Granulins(Thr18-Leu593) was expressed in <i>E.coli</i> . It was recombined with a Hexa-his sequence of pET-28a vector at the N-Terminus and purified by Ni-NTA column. MW= 63.4 KD.
Species	Human
Source	E.coli
Protein Length	18-593 a.a.
Description	Granulin is a protein that in humans is encoded by the GRN gene. 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. 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.
Sequence	Human Pro-Granulins (Thr ¹⁸ -Leu ⁵⁹³) 18 TRCPDGQFCP VACCLDPGGA SYSCCRPL LD KWPTTLRHL GGPCQVDAHC SAGHSCIFTV SGTSSCCPFP EAVACGDGHH C CPRGFHCSA DGRSCFQRSG NNSVGAIQCP DSQFECPDFS TCCVMVDGSW GCC PMPQASC CEDRVHCCPH GAFCDLVHTR CITPTGTHPL AKKLPAQRTN RAVALSS SVM CPDARSRCPD GSTCCELP SG KYGCCPMPNA TCCSDHLHCC PQDTVCDLIQ SKCLSKENAT TDLTKLPAH TVGDVKCDME VSCPDGYTCC RLQSGAWGCC PFT

 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

QAVCCED HIHCCPAGFT CDTQKGTCEQ GPHQVPWMEK APAHLSLPDP QALKRD
 VPCD NVSSCPSSDT CCQLTSGEWG CCPIPEAVCC SDHQHCCPQG YTCVAEGQ
 CQ RGSEIVAGLE KMPARRASLS HPRDIGCDQH TSCPVGQTCC PSLGGSWACC
 QLPHAVCCED RQHCCPAGYT CNVKARSCEK EVVSAQPATF LARSPHVGVK DVE
 CGEGHFC HDNQTCRDN RQGWACCPYR QGVCCADRRH CCPAGFRCAA RGTK
 CLRREA PRWDAPLRDP ALRQLL 593

Formulation

Lyophilized 100µg human GRN in 50µl of TBS (20mM Tris, 50mM NaCl, pH8.0).
 Carry free.

Purity

>95% by SDS gel.

Application

Cell biology.

Reconstitution

Add 500µl deionized water to the vial to prepare a working stock solution at
 200µg/mL. Allow to set at least 30 minutes at 4°C, mix well.

Storage

Store lyophilized protein at -20°C or -70°C. Lyophilized protein is stable for up to 6
 months from date of receipt at -20°C to -70°C. Upon reconstitution, this protein
 can be stored at -20°C for a few weeks or at -70°C in a manual defrost freezer for
 long term storage (six months). Aliquot reconstituted protein to avoid repeated
 freezing / thawing cycles.

GENE INFORMATION

Gene Name

GRN granulin [*Homo sapiens*]

Synonyms

GRN; granulin; GEP; GP88; PEPI; PGRN; PCDGF; progranulin; Granulins;
 Proepithelin; Acrogranin; Paragranulin; Granulin-1; Granulin G; Granulin-2; Granulin
 F; Granulin-3; Granulin B; Granulin-4; Granulin A; Granulin-5; Granulin C; Granulin-6;

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Granulin D; Granulin-7; Granulin E; PC cell-derived growth factor; granulin-epithelin

Gene ID	2896
mRNA Refseq	NM_002087
Protein Refseq	NP_002078
MIM	138945
UniProt ID	P28799
Chromosome Location	17q21.32
Function	cytokine activity; growth factor activity

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