Recombinant Human GRN protein, His & S-tagged

Cat. No. GRN-7847H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GRN aa. (Lys361~Arg585 (Accession # P28799)) fused with N-terminal His & S tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Lys361~Arg585
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 30.2kDa.

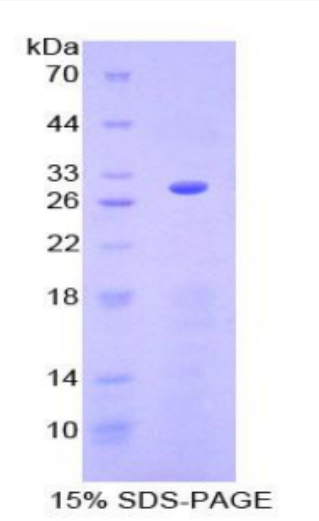
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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.6.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	GRN granulin precursor [Homo sapiens (human)]
Official Symbol	GRN
Synonyms	Plcb2; phospholipase C, beta 2; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-2; PKC beta II; PLC-beta-2; phosphoinositide phospholipase C-beta-2

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Gene ID	2896
mRNA Refseq	NM_002087.3
Protein Refseq	NP_002078.1
UniProt ID	P28799
SDS-PAGE	

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