

# Recombinant Human Progranulin/PGRN/GRN Protein

Catalog No.: RP00187

Recombinant

1 Publications

## Sequence Information

Species	Gene ID	Swiss Prot
Human	2896	P28799

### Tags

C-His

### Synonyms

CLN11; GEP; GP88; PCDGF; PEPI;  
PGRN;GRN; CLN11;  
granulins;GEP;GP88;PCDGF;PEPI;PGRN;gr  
anulins

## Product Information

Source	Purification
HEK293 cells	> 90% by SDS- PAGE.

### Endotoxin

< 0.1 EU/μg of the protein by LAL  
method.

### Formulation

Lyophilized from a 0.22 μm filtered  
solution of PBS, pH 7.4. Contact us for  
customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening.  
Reconstitute to a concentration of  
0.1-0.5 mg/mL in sterile distilled water.  
Avoid vortex or vigorously pipetting the  
protein. For long term storage, it is  
recommended to add a carrier protein or  
stabilizer (e.g. 0.1% BSA, 5% HSA, 10%  
FBS or 5% Trehalose), and aliquot the  
reconstituted protein solution to  
minimize freeze-thaw cycles.

## Background

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.

## Basic Information

### Description

Recombinant Human Progranulin/PGRN/GRN Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Thr18-Leu593) of human Granulin/GRN/Progranulin (Accession #NP\_002078.1) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Contact

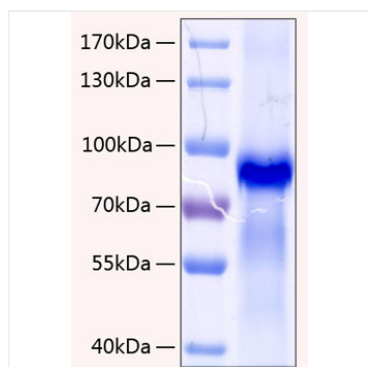
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## Validation Data

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Recombinant Human Progranulin/PGRN/GRN Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 90-95 kDa.