

# Recombinant Mouse Progranulin/PGRN/GRN Protein

Catalog No.: RP02801 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	14824	P28798

### Tags

C-His

### Synonyms

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

## Product Information

Source	Purification
HEK293 cells	> 95% as determined by HPLC

### Endotoxin

&lt;1EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the tube 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.

## Contact

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## 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 Mouse Progranulin/PGRN/GRN Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr18-Leu589) of mouse Progranulin/PGRN/GRN (Accession #NP\_032201.2) fused with a 6×His tag at the C-terminus.

### Bio-Activity

### Storage

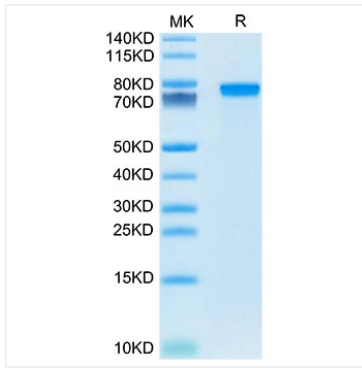
Store the lyophilized protein at -20°C to -80°C for 12 months.

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

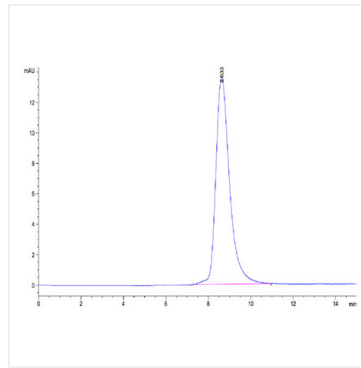
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Mouse Progranulin/PGRN/GRN Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 70-80 kDa.



The purity of Mouse Progranulin/PGRN/GRN is greater than 95% as determined by SEC-HPLC.