

# 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 % as determined by SDS-

PAGE.

Calculated MW Observed MW

62.63 kDa 90-95 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

6	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
$\odot$	www.abclonal.com.cn

## **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 6×His tag at the C-terminus.

#### **Bio-Activity**

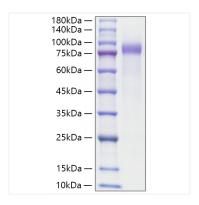
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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**



Recombinant Human Progranulin/PGRN/GRN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.