

**Human CellExp Progranulin (untagged), Rat recombinant protein**  
**Recombinant Rat Progranulin (Untagged)**  
**Catalog # PBV10388r****Specification**

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**Human CellExp Progranulin (untagged), Rat recombinant protein - Product info**

Primary Accession [P23785](#)  
Calculated MW ~65.0 kDa KDa

**Human CellExp Progranulin (untagged), Rat recombinant protein - Additional Info**

Gene ID	<b>10116</b>
Gene Symbol	<b>GRN</b>
<b>Other Names</b>	
Proepithelin, PEPI, PC Cell-derived Growth Factor.	
Gene Source	<b>Rat</b>
Source	<b>HEK 293 cells</b>
Assay&Purity	<b>SDS-PAGE; ≥90%</b>
Assay2&Purity2	<b>N/A;</b>
Recombinant	<b>Yes</b>
Sequence	<b>Signal peptide and rat progranulin (aa 1-602) is untagged. Reflects the native sequence with no additional amino acids.</b>

**Application Notes**

Reconstitute in distilled water

**Format**

Lyophilized protein

**Storage**

-20°C; Lyophilized from 0.2 µm-filtered solution in PBS, pH 7.2.

**Human CellExp Progranulin (untagged), Rat recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Human CellExp Progranulin (untagged), Rat recombinant protein - Images****Human CellExp Progranulin (untagged), Rat recombinant protein - Background**

Progranulin (PGRN), also called proepithelin and PC cell-derived growth factor, is a single precursor protein of granulins which are a family of secreted, glycosylated peptides. It is a widely expressed pluripotent growth factor which plays a role in processes such as development, wound repair and inflammation by activating signaling cascades that control cell cycle progression and cell motility. Its function in the central nervous system is of interest, as mutations in the PGRN gene were found in cases of fronto-temporal degeneration (FTLD). In addition, PGRN has also been linked to tumorigenesis. Progranulin is a biomarker for FTLD, other types of Alzheimer's Disease (AD) and potentially for MCI (Mild Cognitive Impairment). Additionally, PGRN is described as a new ligand of TNF receptors and a potential therapeutic against inflammatory disease like arthritis.

#### **Human CellExp Progranulin (untagged), Rat recombinant protein - References**

Bhandari V.,et al.Endocrinology 133:2682-2689(1993).  
Plowman G.D.,et al.J. Biol. Chem. 267:13073-13078(1992).  
Shoyab M.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:7912-7916(1990).  
Bateman A.,et al.Biochem. Biophys. Res. Commun. 173:1161-1168(1990).