

Human CellExp Progranulin, Rat recombinant protein
Proepithelin; PEPI; PC Cell-derived Growth Factor
Catalog # PBV10387r**Specification**

Human CellExp Progranulin, Rat recombinant protein - Product info

Primary Accession	P23785
Concentration	0.3
Calculated MW	~65.0 kDa KDa

Human CellExp Progranulin, Rat recombinant protein - Additional Info

Gene ID	10116
Gene Symbol	GRN
Other Names	
Proepithelin; PEPI; PC Cell-derived Growth Factor	
Gene Source	Rat
Source	HEK 293 cells
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes
Sequence	Signal peptide and rat Progranulin (aa 1-602) fused at the C-terminus to a FLAG®-tag.

Application Notes

Reconstitute in dH2O before use.

Format

Lyophilized protein

Storage

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

Human CellExp Progranulin, 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, Rat recombinant protein - Images

Human CellExp Progranulin, 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. Rat Recombinant Progranulin fused to FLAG® at C-terminus produced in HEK is a single, glycosylated, polypeptide chain purified by standard chromatographic techniques, containing 602 amino acids and having a molecular mass of ~65.0 kDa.

Human CellExp Progranulin, 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).