

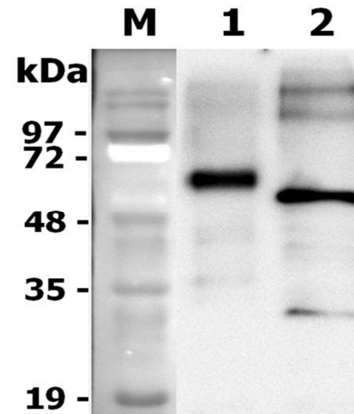
Progranulin, Human CellExp™, rat recombinant

CATALOG #:	4735-10	10 µg
	4735-50	50 µg
SOURCE:	HEK 293 cells	
SEQUENCE:	Signal peptide and rat Progranulin (aa 1-602) fused at the C-terminus to a FLAG®-tag.	
PURITY:	≥95% by SDS-PAGE	
MOL. WEIGHT:	~65.0 kDa (SDS-PAGE)	
FORMULATION:	Lyophilized from 0.2 µm-filtered solution in PBS.	
RECONSTITUTION:	Reconstitute in dH ₂ O before use.	
ENDOTOXIN CONTENT:	<0.1 EU/µg purified protein	
CONCENTRATION:	0.3 mg/ml	
STORAGE CONDITIONS:	Stable for 1 year when stored at -20°C. After opening, prepare aliquots and store at -20°C. Avoid repeated freeze thaw cycles.	

DESCRIPTION:

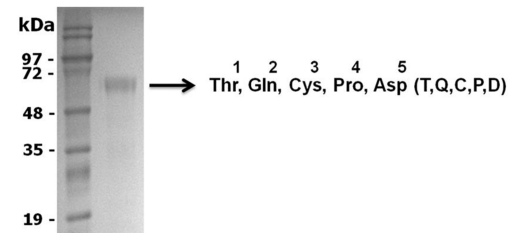
Progranulin (PGRN), also called proepithelin and PC cell-derived growth factor, is a single precursor protein of granulins which are a family of secreted, glycosylated peptides. It is a widely expressed pluripotent growth factor which plays a role in processes such as development, wound repair and inflammation 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.



Deglycosylation of Rat Rec. Progranulin: To examine the deglycosylation of rat Progranulin-FLAG, 1 µg of rat progranulin is denatured with 1X glycoprotein denaturing buffer at 100°C for 10 minutes. After the addition of NP-40 and G7 reaction buffer, twofold dilutions of PNGase F are added and the reaction mix is incubated for 1 or 3 hours at 37°C. Separation of reaction products is visualized by immunoblotting using anti-FLAG-HRP antibody.

NH₂-terminal sequence analysis.

**RELATED PRODUCTS:**

- Recombinant Human Progranulin (Cat. No. 4738-10, 100)
- Recombinant Mouse Progranulin (Cat. No. 4734-10, 50)

FOR RESEARCH USE ONLY! Not to be used on humans