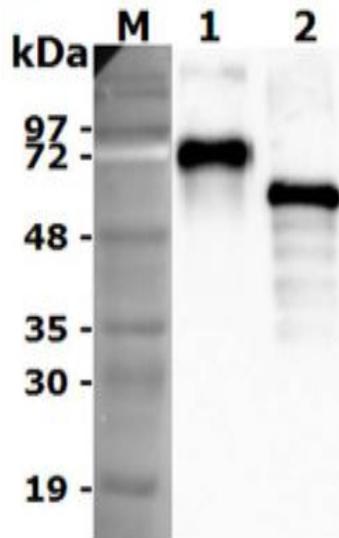


## GRN

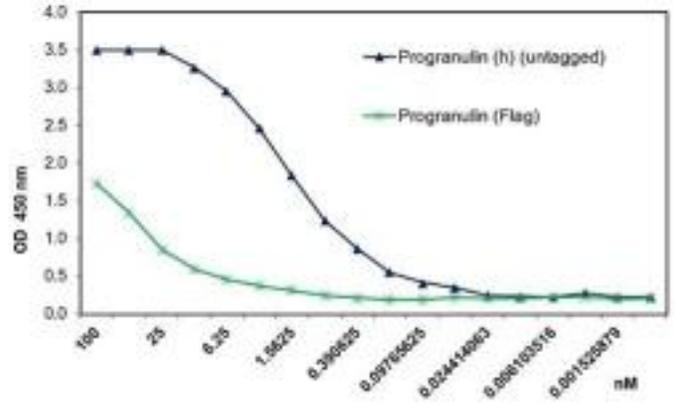
### Recombinant Human Progranulin

<b>Catalog No.</b>	CRH027A CRH027B	<b>Quantity:</b>	10 µg 50 µg
<b>Alternate Names:</b>	PGRN, Acrogranin, Epithelin precursor, Glycoprotein 88, GP88, Granulin precursor, PC cell-derived growth factor, PCDGF, Proepithelin, PEPI		
<b>Description:</b>	<p>Progranulin (PGRN) 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 frontotemporal 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.</p> <p>Recombinant Human Progranulin is composed of a signal peptide and aa 1-593 of human progranulin. The protein reflects the native sequence with no additional aa. The final Progranulin product consists of aa 18-593.</p>		
<b>UniProt ID:</b>	P28799		
<b>Gene ID:</b>	2896		
<b>Source:</b>	HEK 293 cells		
<b>Molecular Weight:</b>	~90 kDa by SDS-PAGE		
<b>Formulation:</b>	Lyophilized from PBS.		
<b>Purity:</b>	≥98% (SDS-PAGE)		
<b>Endotoxin Level:</b>	<0.01 EU/µg purified protein as determined by LAL test (Lonza).		
<b>Biological Activity:</b>	Binds to human sortilin. Activates phospho-ERK1/2 in neuronal mouse P19 cells. Regulates food intake and body weight.		
<b>Reconstitution:</b>	<p>10 µg size: Reconstitute with 100 µl sterile water.            50 µg size: Reconstitute with 50 µl sterile water.            After reconstitution, prepare working aliquots and store at -20°C to -80°C. PBS containing at least 0.1% BSA or HSA should be used for further dilutions.</p>		
<b>Storage &amp; Stability:</b>	Lyophilized product is stable for at least 6 months after receipt when stored at -20°C to -80°C. Following reconstitution, working aliquots are stable at -20°C to -80°C for up to 3 months. <b>Avoid repeated freeze-thaw cycles.</b>		

Western blot of deglycosylated rhProgranulin



rhProgranulin (untagged) binds to the recombinant human receptor Sortilin much stronger than the Flag-tagged version of rhProgranulin



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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