

## Active Recombinant Mouse Grn, FLAG-tagged

Cat. No. Grn-466M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Signal peptide and mouse progranulin (aa 1-589) are fused at the C-terminus to a FLAG-tag.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-589 a.a.
<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>
<b>Form</b>	Liquid. 0.2µm-filtered solution in PBS.
<b>Bio-activity</b>	Activates ERK phosphorylation in MCF10A cells.
<b>Molecular Mass</b>	~70kDa (SDS-PAGE)

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<b>Purity</b>	≥95% (SDS-PAGE)
<b>Stability</b>	Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Storage</b>	Short Term Storage: +4°C; Long Term Storage: -20°C. After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.3mg/ml
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	Grn granulin [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	Grn
<b>Synonyms</b>	GRN; granulin; granulins; PEPI; PCDGF; progranulin; acrogranulin; proepithelin; PC cell-derived growth factor; epithelin;
<b>Gene ID</b>	14824
<b>mRNA Refseq</b>	NM_008175
<b>Protein Refseq</b>	NP_032201

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