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# Datasheet for ABIN5564456 Granulin Protein (GRN) (AA 1-593)



Overview

Quantity:	10 µg
Target:	Granulin (GRN)
Protein Characteristics:	AA 1-593
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

#### Product Details

Cross-Reactivity:	Human
Characteristics:	Signal peptide and human progranulin (aa 1-593) is untagged. Reflects the native sequence with no additional aa.
Purity:	>98 % (SDS-PAGE)
Endotoxin Level:	<0.01EU/µg purified protein (LAL test, Lonza).
Target Details	
Target <sup>.</sup>	Granulin (GRN)

Target:	Granulin (GRN)
Alternative Name:	Progranulin (GRN Products)
Target Type:	Viral Protein

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## Target Details

Background:	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.
Molecular Weight:	~74kDa (glycosylated protein by SDS-PAGE)
UniProt:	P28799

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Activates phospho-ERK1/2 in neuronal mouse P19 cells. Regulates food intake and body weight (see reference 1).
Restrictions:	For Research Use only

#### Handling

Format:	Solid
Concentration:	Lot specific
Buffer:	Lyophilized. Contains PBS.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Expiry Date:	6 months

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