

Product Data Sheet

Progranulin/PGRN Protein, Mouse (589a.a, HEK293, C-His)

Cat. No.: HY-P74617A

Synonyms: Acrogranin; CLN11; GEP; GP88; Granulin; GRN; PCDGF; PEPI; PGRN; Proepithelin; Progranulin

Species: Source: HEK293

Accession: P28798 (T18-L589)

Gene ID: 14824

Molecular Weight: approximately 78.92 kDa

PROPERTIES

AA Sequence					
	TQCPDGQFCP	VACCLDQGGA	NYSCCNPLLD	TWPRITSHHL	
	DGSCQTHGHC	PAGYSCLLTV	SGTSSCCPFS	KGVSCGDGYH	
	CCPQGFHCSA	DGKSCFQMSD	NPLGAVQCPG	SQFECPDSAT	
	CCIMVDGSWG	$C\;C\;P\;M\;P\;Q\;A\;S\;C\;C$	EDRVHCCPHG	ASCDLVHTRC	
	VSPTGTHTLL	KKFPAQKTNR	AVSLPFSVVC	PDAKTQCPDD	
	STCCELPTGK	YGCCPMPNAI	CCSDHLHCCP	QDTVCDLIQS	
	KCLSKNYTTD	LLTKLPGYPV	KEVKCDMEVS	CPEGYTCCRL	
	NTGAWGCCPF	AKAVCCEDHI	HCCPAGFQCH	TEKGTCEMGI	
	LQVPWMKKVI	APLRLPDPQI	LKSDTPCDDF	TRCPTNNTCC	
	KLNSGDWGCC	PIPEAVCCSD	NQHCCPQGFT	CLAQGYCQKG	
	DTMVAGLEKI	PARQTTPLQI	GDIGCDQHTS	CPVGQTCCPS	
	LKGSWACCQL	PHAVCCEDRQ	HCCPAGYTCN	VKARTCEKDV	
	DFIQPPVLLT	LGPKVGNVEC	GEGHFCHDNQ	TCCKDSAGVW	
	ACCPYLKGVC	$C\;R\;D\;G\;R\;H\;C\;C\;P\;G$	GFHCSARGTK	CLRKKIPRWD	
	MFLRDPVPRP	LL			
Biological Activity	Data is not available.				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.				
Endotoxin Level	<1 EU/μg, determined by LAL method.				
Elidotoxiii Levet	-1 LO/μg, determined by LAL method.				
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is				
neconstitución	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).				
	recommended to dad a carrier protein (0.170 bors, 370 from, 1070 f bo of 370 fremulose).				
Storage & Stability	rage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein).				
<i>G</i>		recommended to freeze aliquots at -20°C or -80°C for extended storage.			
Shipping	Room temperature in continental US; may vary elsewhere.				
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DESCRIPTION

Background

Progranulin (PGRN) Protein operates as a crucial regulator of lysosomal function and a growth factor with roles spanning inflammation, wound healing, and cell proliferation. PGRN orchestrates protein trafficking to lysosomes, influences lysosomal enzyme activity, and promotes lysosomal acidification, culminating in the degradation of mature cathepsin D by cathepsin B. Beyond its lysosomal functions, PGRN acts as a growth factor in wound healing, directly impacting dermal fibroblasts and endothelial cells, fostering cell division, migration, and the formation of capillary-like tubule structures. It further contributes to epithelial cell proliferation by impeding TNF-mediated neutrophil activation, preventing the release of oxidants and proteases. Additionally, PGRN plays a pivotal role in modulating inflammation in neurons, safeguarding neuronal survival, axonal outgrowth, and overall neuronal integrity. However, it exhibits a contrasting effect on epithelial cells, inhibiting their proliferation and prompting the secretion of IL-8. The multifaceted actions of PGRN highlight its versatile functions in cellular processes with implications for various physiological and pathological conditions.

Caution: Product has not been fully validated for medical applications. For research use only.

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