

Progranulin/PGRN Protein, Mouse (HEK293, His, solution)

Cat. No.:	HY-P74617
Synonyms:	Acrogranin; CLN11; GEP; GP88; Granulin; GRN; PCDGF; PEPI; PGRN; Proepithelin; Progranulin
Species:	Mouse
Source:	HEK293
Accession:	P28798 (T18-L589)
Gene ID:	14824
Molecular Weight:	70-90 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA