

Progranulin/PGRN Protein, Human (HEK293, C-His)

Cat. No.:	HY-P74618A
Synonyms:	Acrogranin; CLN11; GEP; GP88; Granulin; GRN; PCDGF; PEPI; PGRN; Proepithelin; Progranulin
Species:	Human
Source:	HEK293
Accession:	NP_002078.1 (T18-L593)
Gene ID:	2896
Molecular Weight:	Approximately 94 kDa

PROPERTIES

AA Sequence

T R C P D G Q F C P	V A C C L D P G G A	S Y S C C R P L L D	K W P T T L S R H L
G G P C Q V D A H C	S A G H S C I F T V	S G T S S C C P F P	E A V A C G D G H H
C C P R G F H C S A	D G R S C F Q R S G	N N S V G A I Q C P	D S Q F E C P D F S
T C C V M V D G S W	G C C P M P Q A S C	C E D R V H C C P H	G A F C D L V H T R
C I T P T G T H P L	A K K L P A Q R T N	R A V A L S S S V M	C P D A R S R C P D
G S T C C E L P S G	K Y G C C P M P N A	T C C S D H L H C C	P Q D T V C D L I Q
S K C L S K E N A T	T D L L T K L P A H	T V G D V K C D M E	V S C P D G Y T C C
R L Q S G A W G C C	P F T Q A V C C E D	H I H C C P A G F T	C D T Q K G T C E Q
G P H Q V P W M E K	A P A H L S L P D P	Q A L K R D V P C D	N V S S C P S S D T
C C Q L T S G E W G	C C P I P E A V C C	S D H Q H C C P Q G	Y T C V A E G Q C Q
R G S E I V A G L E	K M P A R R A S L S	H P R D I G C D Q H	T S C P V G Q T C C
P S L G G S W A C C	Q L P H A V C C E D	R Q H C C P A G Y T	C N V K A R S C E K
E V V S A Q P A T F	L A R S P H V G V K	D V E C G E G H F C	H D N Q T C C R D N
R Q G W A C C P Y R	Q G V C C A D R R H	C C P A G F R C A A	R G T K C L R R E A
P R W D A P L R D P	A L R Q L L		

Biological Activity Measured by its ability to chemoattract THP-1 human acute monocytic leukemia cells. The ED₅₀ for this effect is 0.6157 μg/mL, corresponding to a specific activity is 1.62×10³ U/mg.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & 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). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

The Progranulin/PGRN Protein represents an 88 kDa precursor protein, also known as proepithelin and PC cell-derived growth factor, from which a family of secreted, glycosylated peptides called granulins is cleaved. This cleavage yields mature granulins, further processed into active 6 kDa peptides, including granulin A, granulin B, granulin C, and so forth. Epithelins 1 and 2 are synonymous with granulins A and B, respectively. The granulin family, with its 7.5 repeats of a highly conserved 12-cysteine granulin/epithelin motif, plays a crucial role in regulating cell growth, with various members acting as inhibitors, stimulators, or having dual actions on cell growth. Ubiquitously expressed, Progranulin/PGRN exhibits elevated levels in the bone marrow (RPKM 141.7), lung (RPKM 139.8), and 25 other tissues, emphasizing its potential significance in diverse physiological processes across multiple organs.

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

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