PRTN3 Protein, Human (HEK293, His)

Cat. No.:	HY-P70509
Synonyms:	Myeloblastin; AGP7; C-ANCA Antigen; Leukocyte Proteinase 3; PR-3; PR3; Neutrophil Proteinase 4; NP-4; P29; Wegener Autoantigen; PRTN3; MBN
Species:	Human
Source:	HEK293
Accession:	P24158(A26-R249)
Gene ID:	5657
Molecular Weight:	Approximately 34.0 kDa

PROPERTIES

AA Sequence	A E I V G G H E A Q P H S R P Y M A S L Q M R G N P G S H F C G G T L I H P S F V L T A A H C L R D I P Q R L V N V V L G A H N V R T Q E P T Q Q H F S V A Q V F L N N Y D A E N K L N D V L L I Q L S S P A N L S A S V A T V Q L P Q Q D Q P V P H G T Q C L A M G W G R V G A H D P P A Q V L Q E L N V T V V T F F C R P H N I C T F V P R R K A G I C F G D S G G P L I C D G I I Q G I D S F V I W G C A T R L F P D F F T R V A L Y V D W I R S T L R R
Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of 10 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	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	PRTN3, a serine protease, exhibits a broad substrate specificity, targeting elastin, fibronectin, laminin, vitronectin, and collagen types I, III, and IV in vitro. Its enzymatic activity plays a crucial role in the degradation of these extracellular matrix components. Additionally, PRTN3 takes part in the modulation of endothelial cell barrier function by cleaving and activating the receptor F2RL1/PAR-2, thereby enhancing vascular integrity during neutrophil transendothelial migration. Notably, its potential involvement in neutrophil transendothelial migration is suggested, particularly when associated with CD177, emphasizing its significance in immune-related processes.

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

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