Prostasin/PRSS8 Protein, Human (HEK293, His)

Cat. No.:	HY-P77153
Synonyms:	Channel-activating protease 1; CAP1; Serine protease 8
Species:	Human
Source:	HEK293
Accession:	Q16651 (A30-R322)
Gene ID:	5652
Molecular Weight:	Approximately 40 kDa

PROPERTIES

AA Sequence	A E G A E A P C G V A P Q A R I T G G S S A V A G Q W P W Q V S I T Y E G V H V C G G S L V S E Q W V L S A A H C F P S E H H K E A Y E V K L G A H Q L D S Y S E D A K V S T L K D I I P H P S Y L Q E G S Q G D I A L L Q L S R P I T F S R Y I R P I C L P A A N A S F P N G L H C T V T G W G H V A P S V S L L T P K P L Q Q L E V P L I S R E T C N C L Y N I D A K P E E P H F V Q E D M V C A G Y V E G G K D A C Q G D S G G P L S C P V E G L W Y L T G I V S W G D A C G A R N R P G V Y T L A S S Y A S W I Q S K V T E L Q P R V V P Q T Q E S Q P D S N L C G S H L A F S S A P A Q G L L R
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate Boc-QAR-AMC. The specific activity is 121.6525 pmol/min/μg, as measured under the described conditions.
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	Prostasin/PRSS8 protein exhibits trypsin-like cleavage specificity, with a particular affinity for poly-basic substrates. It plays

	a crucial role in stimulating the activity of the epithelial sodium channel (ENaC) by activating the cleavage of its gamma subunits (SCNN1G). Structurally, it is composed of two chains, a light and a heavy chain, which are held together by a disulfide bond, forming a heterodimeric complex.

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