

Prostasin/PRSS8 Protein, Rat (HEK293, His)

Cat. No.:	HY-P77155
Synonyms:	Channel-activating protease 1; CAP1; Serine protease 8
Species:	Rat
Source:	HEK293
Accession:	Q9ES87 (A30-R322)
Gene ID:	192107
Molecular Weight:	Approximately 32.9 kDa.

PROPERTIES

AA Sequence	<div> ADGTEASCGA CGGSLVSNQW NDIVVHTVAQ IRPICLPAAN QLEVP LISRE GKDACQGDSG VYT LTSTYAS PVFNLA AAKK </div> <div> VIQPRITGGG VVSAAHCFPR IISHSSYREE ASF PNGLHCT TCSCLYNINA GPLSCPIDGL WIHHHV AELQ LSR </div> <div> SAKPGQWPWQ EHSKEEYEVK GSQGDIALIR VTGWGHVAPS VPEEPHTIQQ WYLAGIVSWG PRVVPQTQES </div> <div> VSITYNGVHV LGAHQ LDSFS LSSPVTF SRY VSLQTPRPLQ DMLCAGYVKG DACGAPNRPG QPDGHL CNHH </div>
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate Boc-QAR-AMC. The specific activity is 31.804 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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. 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, characterized by a trypsin-like cleavage specificity with a preference for poly-basic substrates, plays a
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crucial role in stimulating the activity of the epithelial sodium channel (ENaC). Its activation involves the cleavage of the gamma subunits (SCNN1G) to modulate ion transport processes. Structurally, Prostin/PRSS8 forms a heterodimer comprising light and heavy chains, united by a disulfide bond, underscoring its functional complexity in mediating cellular responses.

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

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