

## Prostasin/PRSS8 Protein, Mouse (sf9, His)

Cat. No.:	HY-P77154
Synonyms:	Channel-activating protease 1; CAP1; Serine protease 8
Species:	Mouse
Source:	Sf9 insect cells
Accession:	EDL17608 (A30-Q289)
Gene ID:	76560
Molecular Weight:	Approximately 35 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
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 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, Prostasin/PRSS8 forms a heterodimer comprising light and heavy chains, united by a disulfide bond, underscoring its functional complexity in mediating cellular responses.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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