

Recombinant Rat PRSS8 Protein (Met1-Arg322), His-tagged

Cat. No. PRSS8-969R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat PRSS8 Protein (NP_620191.1) (Met1-Arg322) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.
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Species	Rat
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Source	HEK293
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ProteinLength	Met1-Arg322
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Description	Prostasin (Prss8), also known as channel activating protease 1 (CAP1), is a trypsinlike serine peptidase, and plays important roles in epithelial physiology. It is originally purified as an active, soluble enzyme from human seminal fluid and is highly expressed in prostate, lung, kidney, salivary gland and pancreas. Prostasin is expressed as a glycosyl-phosphatidylinositol (GPI)-anchored membrane protein in prostate epithelial cells, and also exists as a secreted proteolytic enzyme possibly via tryptic cleavage of its COOH-terminal hydrophobic domain. Prostasin is found to activate the epithelial sodium channel (ENaC) which is tightly regulated and is critical for maintaining salt and fluid balance in the lung and kidney in both normal and pathological conditions. Accordingly, prostasin has been proposed as a target for therapeutic inhibition in cystic fibrosis. In addition, prostasin inhibits prostate and breast cancer cell invasion in vitro, suggesting a functional role as a suppressor of tumor invasion, as well as a regulator of gene expression during inflammation.
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Predicted N Terminal	Ala 30
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant rat Prss8 consists of 304 amino acids and predicts a molecular mass of 32.9 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	Prss8 protease, serine, 8 [<i>Rattus norvegicus</i>]
Official Symbol	PRSS8

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Synonyms	PRSS8; protease, serine, 8; prostatic; serine protease 8;
Gene ID	192107
mRNA Refseq	NM_138836
Protein Refseq	NP_620191
UniProt ID	Q9ES87

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