

Datasheet for ABIN7197547
PRSS8 Protein (His tag)



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Overview

Quantity:	50 µg
Target:	PRSS8
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PRSS8 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Prostatic/PRSS8 Protein (His Tag)(Active)
Sequence:	Ala 30-Arg 322
Characteristics:	A DNA sequence encoding the mature form of human Prss8 (NP_002764.1) (Ala 30-Arg 322) was fused with a signal peptide at the N-terminus and a polyhistidine-tag at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate Boc-QAR-AMC (R&D Systems, Catalog # ES014). The specific activity is >10 pmoles/min/µg.

Target Details

Target:	PRSS8
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Target Details

Alternative Name: Prostasin/PRSS8 ([PRSS8 Products](#))

Background: 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.

Synonym: CAP1,PROSTASIN

Molecular Weight: 32.8 kDa

NCBI Accession: [NP_002764](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.