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# Recombinant Human SPINK1 Protein

**Catalog No.: RP03188LQ** Recombinant

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---|---|---|
| Human | 6690 | P00995 |

**Tags**
C-His

**Synonyms**
Pancreatic Secretory Trypsin Inhibitor; Serine Protease Inhibitor Kazal-Type 1; Tumor-Associated Trypsin Inhibitor; TATI; SPINK1; PSTI

## Product Information

| Source | Purification |
|---|---|
| HEK293 cells | ≥ 95 % as determined by SDS-PAGE. |

| Calculated MW | Observed MW |
|---|---|
| 7.28 KDa | 12-16 KDa |

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Supplied as a 0.22 μm filtered solution in 20mM Tris-HCl, 500mM NaCl, 5% Trehalose, 5% Mannitol, 0.02% Tween 80, pH 9.0. Contact us for customized product form or formulation.

**Reconstitution**

## Background

Serine Protease Inhibitor Kazal-Type 1 (SPINK1) is a trypsin inhibitor that prevent the trypsin-catalyzed premature activation of zymogens within the pancreas. Defects in SPINK1 are a cause of pancreatitis (PCTT). A disease characterized by the presence of calculi in pancreatic ducts. It causes severe abdominal pain attacks. Defects in SPINK1 are the cause of susceptibility to tropical calcific pancreatitis (TCP). Recombinant SPINK1 protein (rSPINK1) stimulated cell proliferation in benign RWPE as well as cancerous prostate cells. The research result indicated that the potential of SPINK1 as an extracellular therapeutic target in prostate cancer. In contrast, knockdown of SPINK1 in 22RV1 cells inhibited cell proliferation, cell invasion, and tumor growth in xenograft assays.

## Basic Information

**Description**
Recombinant Human SPINK1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp24-Cys79) of Human SPINK1 (Accession #NP_003113.2) fused with His tag at the C-terminus.

**Bio-Activity**

**Shipping**
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -70℃. This product is stable at ≤ -70℃ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.
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**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact


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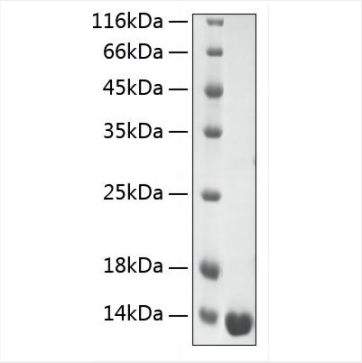
## Validation Data




Recombinant Human SPINK1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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