Recombinant Human SPINK1 Protein

Catalog No.: RP03188LQ

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Sequence Information

Species
Human

Gene ID
6690

Swiss Prot
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
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
7.28 KDa

Observed MW
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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

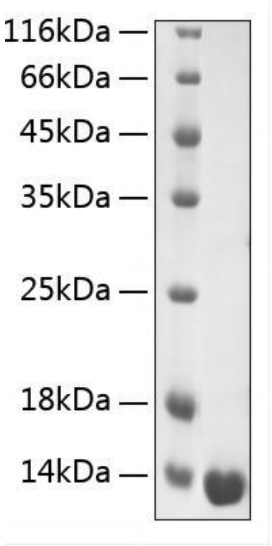
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
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Validation Data



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