

## Recombinant Human SPINK1, His-tagged

**Cat. No.** SPINK1-7896H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Serine Protease Inhibitor KazalType 1/SPINK1 produced by transfected human cell is a secreted protein with sequence (Asp24Cys79) of Human SPINK1 fused with a polyhistidine tag at the Cterminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | <p>Serine Protease Inhibitor KazalType 1 (SPINK1) is a trypsin inhibitor that prevent the trypsincatalyzed 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).</p> <p>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.</p> |
| <b>Form</b>             | Supplied as a 0.2 µM filtered solution of 20mM MES, 150mM NaCl, 2mM CaCl <sub>2</sub> , 1mM DTT, 0.05% Brij35, 10% Glycerol, pH 6.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | DSLGREAKCY NELNGCTKIY DPVCGTDGNT YPNECVLCFE NRKRQTSILI<br>QKSGPCVDHH HHHH*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                |                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------|
| <b>Purity</b>  | Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.                               |
| <b>Notes</b>   | For research use only.                                                                          |
| <b>Storage</b> | Store at less than 20°C. stable for 6 months after receipt. Please minimize freeze-thaw cycles. |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | SPINK1 serine peptidase inhibitor, Kazal type 1 [ Homo sapiens ]                                                                                                                                                                              |
| <b>Official Symbol</b>     | SPINK1                                                                                                                                                                                                                                        |
| <b>Synonyms</b>            | SPINK1; serine peptidase inhibitor, Kazal type 1; serine protease inhibitor, Kazal type 1; pancreatic secretory trypsin inhibitor; PCTT; PSTI; Spink3; TATI; tumor-associated trypsin inhibitor; serine protease inhibitor Kazal-type 1; TCP; |
| <b>Gene ID</b>             | 6690                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_003122                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_003113                                                                                                                                                                                                                                     |
| <b>MIM</b>                 | 167790                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | P00995                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 5q32                                                                                                                                                                                                                                          |
| <b>Function</b>            | endopeptidase inhibitor activity; protein binding; serine-type endopeptidase inhibitor activity;                                                                                                                                              |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA