

Recombinant Human SPINK1, His-tagged

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

SPECIFICATION

Product Overview 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.

Species Human

Source HEK293

Description Serine Protease Inhibitor KazalType 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.

Form Supplied as a 0.2 μM filtered solution of 20mM MES, 150mM NaCl, 2mM CaCl₂, 1mM DTT, 0.05% Brij35, 10% Glycerol, pH 6.0

AA Sequence DSLGREAKCY NELNGCTKIY DPVCGTDGNT YPNECVLCFE NRKRQTSILI
QKSGPCVDHH HHHH*

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

GENE INFORMATION

Gene Name	SPINK1 serine peptidase inhibitor, Kazal type 1 [Homo sapiens]
Official Symbol	SPINK1
Synonyms	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;
Gene ID	6690
mRNA Refseq	NM_003122
Protein Refseq	NP_003113
MIM	167790
UniProt ID	P00995
Chromosome Location	5q32
Function	endopeptidase inhibitor activity; protein binding; serine-type endopeptidase inhibitor activity;

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