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Datasheet for ABIN1097574

SPINK1 Protein (AA 24-79) (His tag)

Overview

Quantity:	50 µg
Target:	SPINK1
Protein Characteristics:	AA 24-79
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPINK1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Serpin Kazal-1 (C-6His)
Sequence:	DSLGREAKCY NELNGCTKIY DPVCGTDGNT YPNECVLCFE NRKRQTSILI QKSGPCVDHH HHHH
Characteristics:	Recombinant Human Serine Protease Inhibitor Kazal-Type 1/SPINK1 produced by transfected human cells is a secreted protein with sequence (Asp24-Cys79) of Human SPINK1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	SPINK1
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Target Details

Alternative Name:	spink1 (SPINK1 Products)
Sub Type:	Fusionprotein
Background:	<p>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.</p> <p>Alternative Names: Pancreatic Secretory Trypsin Inhibitor, Serine Protease Inhibitor Kazal-Type 1, Tumor-Associated Trypsin Inhibitor, TATI, SPINK1, PSTI</p>
Molecular Weight:	7.28 kDa
UniProt:	P00995

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM MES, 150 mM NaCl, 2 mM CaCl2, 1 mM DTT, 0.05 % Brij35, 10 % Glycerol, pH 6.0.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C

Handling

Storage Comment: Store at < -20°C, stable for 6 months after receipt.
Please minimize freeze-thaw cycles.

Expiry Date: 6 months