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Datasheet for ABIN1097577

**SPINK4 Protein (AA 27-86) (His tag)**

## Overview

Quantity:	50 µg
Target:	SPINK4
Protein Characteristics:	AA 27-86
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPINK4 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Serpin Kazal-4/SPINK4 (C-6His)
Sequence:	GKLPFSRMPI CEHMOVESPTC SQMSNLVCGT DGLTYTNECQ LCLARIKTKQ DIQIMKDGKC VDHHHHHHH
Characteristics:	Recombinant Human Serine Protease Inhibitor Kazal-Type 4/SPINK4 produced by transfected human cells is a secreted protein with sequence (Gly27-Cys86) of human SPINK4 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:	SPINK4
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## Target Details

Alternative Name:	spink4 ( <a href="#">SPINK4 Products</a> )
Sub Type:	Fusionprotein
Background:	<p>Serine Protease Inhibitor Kazal-Type 4 (SPINK4) is a secreted protein containing one Kazal-like domain. SPINK4 is a member of the SPINK protein family. The gene family of serine protease inhibitors of the Kazal type (SPINK) are functional and positional candidate genes for celiac disease (CD). SPINK1 plays an important role in protecting the pancreas against excessive trypsinogen activation. It is a potent natural inhibitor of pancreatic trypsin activity. SPINK1 mutations are associated with the development of acute and chronic pancreatitis and have been detected in all forms of chronic pancreatitis. SPINK2 functions as a trypsin/acrosin inhibitor and is synthesized mainly in the testis and seminal vesicle where its activity is engaged in fertility. The SPINK2 protein contains a typical Kazal domain composed by six cysteine residues forming three disulfide bridges. SPINK9 was identified in human skin. Its expression was strong in palmar epidermis, but not detectable or very low in non palmoplantar skin.</p> <p>Alternative Names: Serine Protease Inhibitor Kazal-Type 4, Peptide PEC-60 Homolog, SPINK4</p>
Molecular Weight:	7.73 kDa
UniProt:	<a href="#">O60575</a>

## 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 CaCl <sub>2</sub> , 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.

## Handling

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Storage:	-80 °C
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Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
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Expiry Date:	6 months
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