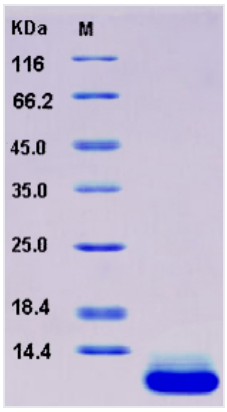
SPINK4 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	SPINK4, Recombinant Protein
Full Product Name	Recombinant Human SPINK4 Protein (His tag)
Product Gene Name	SPINK4 recombinant protein
Product Synonym Names	SPINK4, MGC133107, PEC-60
Host	Human Cells
Form/Format	Lyophilized from sterile PBS, pH 7.4
Purity/Purification	> 97 % as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	9,454 Da
OMIM	AF048700 mRNA
3D Structure	ModBase 3D Structure for O60575
Predicted N Terminal	Gly 27
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for SPINK4 recombinant protein	The recombinant human SPINK4 consists of 71 amino acids and has a predicted molecular mass of 8 kDa. It migrates as an approximately 10 kDa band in SDS-PAGE under reducing conditions.
Related Product Information for SPINK4 recombinant protein	Background: Serine protease inhibitor Kazal-type 4, also known as Peptide PEC-60 homolog and SPINK4, is a secreted protein which contains 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. Description: A DNA sequence encoding the human SPINK4 (NP_055286.1) (Met 1-Cys 86) was expressed, fused with a polyhistidine tag at the C-terminus.
Other Notes	Small volumes of SPINK4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SPINK4 purchase	MBS2545697 is a recombinant protein targeting SPINK4. Also known as Recombinant Human SPINK4 Protein (His tag). Host: Human Cells.



SDS-PAGE of SPINK4 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPINK4. It may not necessarily be applicable to this product.

NCBI GI #	7657453
NCBI GeneID	27290
NCBI Accession #	NP_055286.1
UniProt Primary Accession #	O60575
UniProt Secondary Accession #	Q2YDT7
UniProt Related Accession #	O60575
GenBank Nucleotide #	NM_014471.2
NCBI Official Full Name	serine protease inhibitor Kazal-type 4
NCBI Official Synonym Full Names	serine peptidase inhibitor, Kazal type 4
NCBI Official Symbol	SPINK4
NCBI Official Synonym Symbols	PEC60; HEL136; PEC-60
UniProt Protein Name	Serine protease inhibitor Kazal-type 4
UniProt Synonym Protein Names	Peptide PEC-60 homolog
Protein Family	Serine protease inhibitor
UniProt Gene Name	SPINK4
NCBI Protein Information	serine protease inhibitor Kazal-type 4
UniProt Comments for SPINK4	SPINK4: Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 9p13.3
Research Articles on SPINK4	**1.** Observational study of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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