

Recombinant Human SPINK1 Protein, N-Met,N-His-tagged

Cat. No. SPINK1-15H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SPINK1 Protein, fused to His and Met-tag at N-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asp24-Cys79
Description	The protein encoded by this gene is a trypsin inhibitor, which is secreted from pancreatic acinar cells into pancreatic juice. It is thought to function in the prevention of trypsin-catalyzed premature activation of zymogens within the pancreas and the pancreatic duct. Mutations in this gene are associated with hereditary pancreatitis and tropical calcific pancreatitis.
Form	Supplied as a 0.2 µm filtered solution in MES, NaCl, CaCl ₂ , DTT, Glycerol and Brij-35.
Bio-activity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH ₂ . The IC ₅₀ value is <10 nM, as measured under the described conditions.
Molecular Mass	Predicted Molecular Mass: 7 kDa SDS-PAGE: 8-11 kDa, reducing conditions

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Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
Shipping	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	SPINK1 serine peptidase inhibitor Kazal type 1 [Homo sapiens (human)]
Official Symbol	SPINK1
Synonyms	pancreatic secretory trypsin inhibitor; PCTT; PCTTSpink3; PSTI; PSTISerine protease inhibitor Kazal-type 1; serine peptidase inhibitor, Kazal type 1; serine protease inhibitor, Kazal type 1; SPINK1; Spink3; TATI; TATI Tumor-associated trypsin inhibitor; TCP; TATI
Gene ID	6690
mRNA Refseq	NM_003122.5
Protein Refseq	NP_003113.2
MIM	167790

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UniProt ID

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