

Recombinant human SPINK1 protein

Catalog Number: ATGP2197

PRODUCT INFORMATION

Expression system

E.coli

Domain

24-79aa

UniProt No.

P00995

NCBI Accession No.

NP_003113

Alternative Names

Serine peptidase inhibitor Kazal type 1, Serine peptidase inhibitor, Kazal type 1, PCTT, PSTI, Spink3, TATI, TCP

PRODUCT SPECIFICATION

Molecular Weight

8.6 kDa (79aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

SPINK1 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. Recombinant human SPINK1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>DSLGREA KCYNELNGCT KIYDPVCGTD GNTYPNECVL CFENRKRQTS ILIQKSGPC

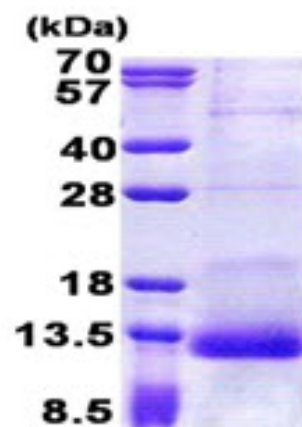
General References

Witt H., et al. (2000) Nat. Genet. 25:213-216

Hassan Z., et al. (2002) Am. J. Hum. Genet. 71:964-968

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)