

# Product information



## SPINK1, 24-79aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2197

**Full name:** Serine peptidase inhibitor, Kazal type 1

**NCBI Accession No.:** NP\_003113

**Synonyms:** PCTT, PSTI, Spink3, TATI, TCP

**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.

|   |                           |
|---|---------------------------|
| <p><b>Form:</b> Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT</p> <p><b>Molecular Weight:</b> 8.6 kDa (79aa), confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 90% by SDS - PAGE</p> <p><b>Concentration:</b> 0.5 mg/ml (determined by Bradford assay)</p> | <p>15% SDS-PAGE (3ug)</p> |
| <p><b>Sequences of amino acids:</b></p> <p><u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>MGSDSLGREA</u> <u>KCYNELNGCT</u> <u>KIYDPVCGTD</u> <u>GNTYPNECVL</u> <u>CFENRKRQTS</u> <u>ILIQKSGPC</u></p>   |                           |

### General references:

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

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

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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