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**Product Data Sheet**

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Product Name: SPINK1 Human  
Cat. No.: GP22254  
Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serine Peptidase Inhibitor Kazal Type 1; Pancreatic Secretory Trypsin Inhibitor; Tumor-Associated Trypsin Inhibitor; PCTT; TATI; Spink3; Serine Protease Inhibitor Kazal Type 1; TCP; PSTI.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSDSLGREA KCYNELNGCT KIYDPVCGTD GNTYPNECVL CFENRKRQTS ILIQKSGPC.		
Formulation	The SPINK1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 20% glycerol.		

**Introduction**

Trypsin inhibitor SPINK1 is secreted from pancreatic acinar cells into pancreatic fluid. SPINK1 has a role in inhibition of trypsin-catalyzed premature initiation of zymogens in the pancreas and the pancreatic duct. Alterations in SPINK1 gene are the cause for tropical calcific and pancreatitis hereditary pancreatitis.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

SPINK1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 79 amino acids (24-79) and having a molecular mass of 8.6kDa. SPINK1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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