

## SPINK1 Protein, Human (HEK293, His)

Cat. No.:	HY-P71053
Synonyms:	Pancreatic Secretory Trypsin Inhibitor; Serine Protease Inhibitor Kazal-Type 1; Tumor-Associated Trypsin Inhibitor; TATI; SPINK1; PSTI
Species:	Human
Source:	HEK293
Accession:	P00995 (D24-C79)
Gene ID:	6690
Molecular Weight:	12-16 kDa

### PROPERTIES

AA Sequence	D S L G R E A K C Y    N E L N G C T K I Y    D P V C G T D G N T    Y P N E C V L C F E N R K R Q T S I L I    Q K S G P C
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 500 mM NaCl, 5% Trehalose, 5% Mannitol, 0.02% Tween 80, pH 9.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	<p>SPINK1, a serine protease inhibitor, demonstrates notable anti-trypsin activity, particularly in the pancreas where it serves a critical role in safeguarding against premature activation of zymogens catalyzed by trypsin. This protective function helps maintain the integrity of cellular processes within the pancreas. Additionally, SPINK1 exhibits involvement in the male reproductive tract, where it binds to sperm heads, exerting its influence on sperm capacitance. Notably, SPINK1 achieves this modulation by inhibiting calcium uptake and nitrogen oxide (NO) production, showcasing its diverse regulatory functions in distinct physiological contexts.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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