

SPINK1 Protein, Mouse (P.pastoris, His)

Cat. No.:	HY-P702493
Synonyms:	Pancreatic Secretory Trypsin Inhibitor; Serine Protease Inhibitor Kazal-Type 1; Tumor-Associated Trypsin Inhibitor; TATI; SPINK1; PSTI
Species:	Mouse
Source:	P. pastoris
Accession:	P09036 (A24-C80)
Gene ID:	20730
Molecular Weight:	8.1kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SPINK1, a serine protease inhibitor, functions as an anti-trypsin agent, exhibiting inhibitory activity against trypsin. Particularly crucial in the pancreas, SPINK1 serves as a protective factor preventing the premature activation of zymogens catalyzed by trypsin. Beyond its pancreatic role, SPINK1 plays a distinctive function in the male reproductive tract, where it binds to sperm heads. In this context, it modulates sperm capacitance by inhibiting calcium uptake and nitrogen oxide (NO) production. These diverse roles highlight the significance of SPINK1 in regulating proteolytic activity and contributing to the protective mechanisms in both the pancreas and male reproductive processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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