

## SPINK1 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Serine protease inhibitor Kazal-type 3;Spink1;P12;Spink3;Serine protease inhibitor Kazal-type 1;Prostatic secretory glycoprotein
Protein Construction:	24-80 aa
Species:	Mouse
Expression Host:	P. pastoris (Yeast)
Accession:	P09036
Molecular Weight:	8.1 kDa (predicted)
AA Sequence:	AKVTGKEASCHDAVAGCPRIYDPVCGTDGITYANECVLCFENRKRIEPLIRKGGPC

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Serine protease inhibitor which exhibits anti-trypsin activity. In the pancreas, protects against trypsin-catalyzed premature activation of zymogens.; In the male reproductive tract, binds to sperm heads where it modulates sperm capacitance by inhibiting calcium uptake and nitrogen oxide (NO) production.

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