# **Recombinant Mouse SPINK4 Protein**

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Catalog No.: RP01487 Recombinant

## Sequence Information

**Species** Gene ID **Swiss Prot** Mouse 20731 035679

**Tags** C-His

**Synonyms** 

SPINK4; MPGC60; SPINK4

### **Product Information**

**Purification** HEK293 cells

≥ 95 % as determined by SDS-

PAGE.

Calculated MW Observed MW

7.64 kDa 10-15 kDa

#### **Endotoxin**

< 0.1 EU/µg of the protein by LAL method.

#### Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### Contact

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### **Background**

Serine protease inhibitor Kazal-type 4, also known as Peptide PEC-6 homolog and SPINK4, is a secreted protein that contains one Kazal-like domain. SPINK4 is a member of the SPINK protein family. The gene family of serine protease inhibitors of the Kazal type (SPINK) are functional and positional candidate genes for celiac disease (CD). SPINK1 plays an important role in protecting the pancreas against excessive trypsinogen activation. It is a potent natural inhibitor of pancreatic trypsin activity. SPINK1 mutations are associated with the development of acute and chronic pancreatitis and have been detected in all forms of chronic pancreatitis. SPINK2 functions as a trypsin/acrosin inhibitor and is synthesized mainly in the testis and seminal vesicle where its activity is engaged infertility. The SPINK2 protein contains a typical Kazal domain composed by six cysteine residues forming three disulfide bridges. SPINK9 was identified in human skin. Its expression was strong in palmar epidermis, but not detectable or very low in non palmoplantar skin.

### **Basic Information**

### Description

Recombinant Mouse SPINK4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly27-Cys86) of mouse SPINK4/MPGC60 (Accession #NP\_035593.2) fused with a 6×His tag at the C-terminus.

### **Bio-Activity**

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

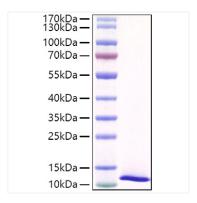
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for

Avoid repeated freeze/thaw cycles.

#### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

# **Validation Data**



Recombinant Mouse SPINK4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.