

## Product datasheet

# Recombinant Human SPINK1/P12 protein ab168878

[1 Image](#)

### Description

|                                   |   |
|-----------------------------------|---|
| <b>Product name</b>               | Recombinant Human SPINK1/P12 protein  |
| <b>Purity</b>                     | > 90 % SDS-PAGE.<br>ab168878 was purified using conventional chromatography techniques. |
| <b>Expression system</b>          | Escherichia coli  |
| <b>Accession</b>                  | <b><u>P00995</u></b>  |
| <b>Protein length</b>             | Full length protein   |
| <b>Animal free</b>                | No  |
| <b>Nature</b>                     | Recombinant   |
| <b>Species</b>                    | Human   |
| <b>Sequence</b>                   | MGSSHHHHHHSSGLVPRGSHMGSDSLGREAKCYNELNG<br>CTKIYDPVCGTD<br>GNTYPNECVLCFENRKRQTSILIQKSGPC |
| <b>Predicted molecular weight</b> | 9 kDa including tags  |
| <b>Amino acids</b>                | 24 to 79  |
| <b>Tags</b>                       | His tag N-Terminus  |

### Specifications

Our **Abpromise guarantee** covers the use of **ab168878** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|                          |  |
|--------------------------|--|
| <b>Applications</b>      | Mass Spectrometry<br>SDS-PAGE                  |
| <b>Mass spectrometry</b> | MALDI-TOF                                      |
| <b>Form</b>              | Liquid   |
| <b>Additional notes</b>  | This product was previously labelled as SPINK1 |

### Preparation and Storage

|                              |  |
|------------------------------|--|
| <b>Stability and Storage</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or - |
|------------------------------|--|

80°C. Avoid freeze / thaw cycle.

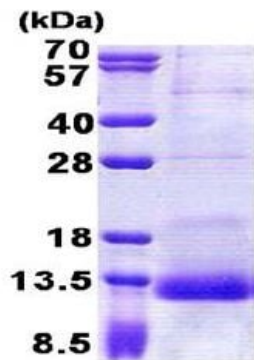
pH: 8.00

Constituents: 0.02% DTT, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.88% Sodium chloride

## General Info

|                               |  |
|-------------------------------|--|
| <b>Function</b>               | Serine protease inhibitor which exhibits anti-trypsin activity (PubMed:7142173). In the pancreas, protects against trypsin-catalyzed premature activation of zymogens.<br>In the male reproductive tract, binds to sperm heads where it modulates sperm capacitance by inhibiting calcium uptake and nitrogen oxide (NO) production. |
| <b>Involvement in disease</b> | Pancreatitis, hereditary<br>Tropical calcific pancreatitis   |
| <b>Sequence similarities</b>  | Contains 1 Kazal-like domain.  |
| <b>Cellular localization</b>  | Secreted.  |

## Images



15% SDS-PAGE analysis of ab168878 (3µg).

SDS-PAGE - Recombinant Human SPINK1/P12  
protein (ab168878)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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