

**RPH145Hu01 10 $\mu$ g**  
**Recombinant Serine Peptidase Inhibitor Kazal Type 5 (SPINK5)**  
**Organism Species: Homo sapiens (Human)**  
***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

**[ PROPERTIES ]**

**Residues:** Gly699~Ser976 (Accession # Q9NQ38),  
with two N-terminal Tags, His-tag and T7-tag.

**Host:** *E. coli*

**Subcellular Location:** Secreted.

**Purity:** >95%

**Endotoxin Level:** <1.0EU per 1 $\mu$ g  
(determined by the LAL method).

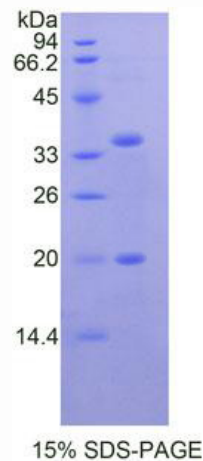
**Formulation:** Supplied as lyophilized form in PBS,  
pH7.4, containing 5% sucrose, 0.01% sarcosyl.

**Predicted isoelectric point:** 8.8

**Predicted Molecular Mass:** 35.7kDa

**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)



**[ USAGE ]**

Reconstitute in sterile PBS, pH7.2-pH7.4.

## **[ STORAGE AND STABILITY ]**

### **Storage: Avoid repeated freeze/thaw cycles.**

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## **[ SEQUENCES ]**

The target protein is fused with two N-terminal Tags, His-tag and T7-tag, its sequence is listed below.

MGSSHHHHHH SSGLVPRGSH MASMTGGQQM GRGSEF-GG GNTQDECAEY  
REQMKNGRSL CTRESDPVRD ADGKSYNNQC TMCKAKLERE AERKNEYSRS  
RSNGTGSESG KDTCDEFRSQ MKNGKLICTR ESDPVRGPDG KTHGNKCTMC  
KEKLEREAAE KKKKEDEDRS NTGERSNTGE RSNKEDLCR EFRSMQRNGK LICTRENNPV  
RGPYGKMHIN KCAMCQSIFD REANERKKKD EEKSSSKPSN NAKDECSEFR NYIRNNELIC  
PRENDPVHGA DGKFYTNKCY MCRAVFLTEA LERAKLQKEP SHVRAS

## **[ REFERENCES ]**

1. Tartaglia-Polcini A., *et al.* (2006) J. Invest. Dermatol. 126:315-324.
2. Sprecher E., *et al.* (2001) J. Invest. Dermatol. 117:179-187.
3. Ahmed A., *et al.* (2001) J. Protein Chem. 20:273-278.
4. Deraison C., *et al.* (2007) Mol. Biol. Cell 18:3607-3619.