

## 32-7494: Recombinant Human Serpin Kazal-4/SPINK4 (C-6His)

**Gene :** SPINK4  
**Gene ID :** 27290  
**Uniprot ID :** O60575

### Description

Source: Human Cells.  
MW :7.73kD.

Recombinant Human SPINK4 is produced by our Mammalian expression system and the target gene encoding Gly27-Cys86 is expressed with a 6His tag at the C-terminus. Serine Protease Inhibitor Kazal-Type 4 (SPINK4) is a secreted protein containing 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 in fertility. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM MES, 150mM NaCl, 2mM CaCl<sub>2</sub>, 1mM DTT, 0.05% Brij35, 10% Glycerol, pH 6.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** GKLPFSRMPICEHMOVESPTCSQMSNLVCGTDGLTYTNECQLCLARIKTKQDIQIMKDGKCVDDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.