

SPINK4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76085
Synonyms:	Serine Protease Inhibitor Kazal-Type 4; Peptide PEC-60 Homolog; SPINK4
Species:	Mouse
Source:	HEK293
Accession:	NP_035593.2 (G27-C86)
Gene ID:	20731
Molecular Weight:	Approximately 8-11 kDa

PROPERTIES

AA Sequence	G S L V F P R M P F C E H M A E L P N C P Q T P N L I C G T D G L T Y E N E C H L C L T R M K T M K D I Q I M K D G Q C
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SPINK4 protein is anticipated to play a crucial role as a serine-type endopeptidase inhibitor, suggesting its involvement in the intricate regulation of peptidase activity. With a predicted location in the extracellular region, this protein may exert its inhibitory function in the extracellular milieu. Its expression in diverse tissues, including brain ventricular layer, ganglia, liver lobe, and olfactory epithelium, underscores its potential involvement in various physiological processes. The biased expression in large intestine and colon adult tissues emphasizes its potential role in local regulatory mechanisms within the digestive system. The orthologous relationship with human SPINK4, identified as a serine peptidase inhibitor of the Kazal type 4, further supports the evolutionary conservation of its functional significance across species.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA