

SPINK2 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76653
Synonyms:	Serine protease inhibitor Kazal-type 2; Acrosin-trypsin inhibitor; HUSI-II
Species:	Human
Source:	HEK293
Accession:	P20155/NP_066937.1 (Q24-C84)
Gene ID:	6691
Molecular Weight:	Approximately 33.6-38 kDa

PROPERTIES

AA Sequence	Q F G L F S K Y R T P N C S Q Y R L P G C P R H F N P V C G S D M S T Y A N E C T L C M K I R E G G H N I K I I R N G P C
Biological Activity	Data is not available.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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	SPINK2, a potent inhibitor of acrosin, plays a crucial role in ensuring normal spermiogenesis. Its primary function is likely to impede the premature activation of proacrosin and other proteases, thereby preventing the initiation of events that could lead to spermiogenesis defects. SPINK2 may additionally participate in the regulation of germ cell apoptosis mediated by serine proteases. Beyond its role in acrosin inhibition, SPINK2 exhibits inhibitory activity against trypsin, suggesting its involvement in regulating various serine protease-dependent processes.
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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