

## Kallikrein-7 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70883
Synonyms:	Kallikrein-7; Klk7; Serine protease 6; Stratum corneum chymotryptic enzyme; Thymopsin; kallikrein-related peptidase 7; PRSS6; SCCEkallikrein-7
Species:	Mouse
Source:	HEK293
Accession:	Q91VE3 (Q22-R249)
Gene ID:	23993
Molecular Weight:	28-35 kDa

### PROPERTIES

AA Sequence	<p>Q G E R I I D G Y K    C K E G S H P W Q V    A L L K G N Q L H C    G G V L V D K Y W V</p> <p>L T A A H C K M G Q    Y Q V Q L G S D K I    G D Q S A Q K I K A    T K S F R H P G Y S</p> <p>T K T H V N D I M L    V R L D E P V K M S    S K V E A V Q L P E    H C E P P G T S C T</p> <p>V S G W G T T T S P    D V T F P S D L M C    S D V K L I S S R E    C K K V Y K D L L G</p> <p>K T M L C A G I P D    S K T N T C N G D S    G G P L V C N D T L    Q G L V S W G T Y P</p> <p>C G Q P N D P G V Y    T Q V C K Y K R W V    M E T M K T H R</p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM HEPES, 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 <sub>2</sub> 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	The Kallikrein-7 protein emerges as a significant contributor to the maintenance of skin integrity, potentially catalyzing the degradation of intercellular cohesive structures within the cornified layer. This activity is likely crucial for the continuous shedding of cells from the skin surface. With a specificity for amino acid residues featuring aromatic side chains in the P1 position, Kallikrein-7 exhibits cleavage activity on insulin A and B chains at specific residues, suggesting its versatility in
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substrate recognition. Moreover, the protein could play a role in the activation of precursors to inflammatory cytokines, implying a potential involvement in the regulation of inflammatory processes. The multifaceted functions of Kallikrein-7 underscore its importance in skin physiology and its potential contributions to both structural integrity and inflammatory responses, warranting further exploration into its specific molecular mechanisms.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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