Kallikrein-5 Protein, Human (HEK293, His)

Cat. No.:	HY-P70939
Synonyms:	Kallikrein-5; Kallikrein-Like Protein 2; KLK-L2; Stratum Corneum Tryptic Enzyme; KLK5; SCTE
Species:	Human
Source:	HEK293
Accession:	Q9Y337 (V23-S293)
Gene ID:	25818
Molecular Weight:	Approximately 36-40.0 kDa

PROPERTIES

AA Sequence	V T E H V L A N N D V S C D H P S N T V P S G S N Q D L G A G A G E D A R S D D S S S R I I N G S D C D M H T Q P W Q A A L L L R P N Q L Y C G A V L V H P Q W L L T A A H C R K K V F R V R L G H Y S L S P V Y E S G Q Q M F Q G V K S I P H P G Y S H P G H S N D L M L I K L N R R I R P T K D V R P I N V S S H C P S A G T K C L V S G W G T T K S P Q V H F P K V L Q C L N I S V L S Q K R C E D A Y P R Q I D D T M F C A G D K A G R D S C Q G D S G G P V V C N G S L Q G L V S W G D Y P C A R P N R P G V Y T N L C K F T K W I Q E T I Q A N S
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC. The specific activity is ≥220 pmol/min/μg, as measured under the described conditions.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM MES, 150 mM NaCl, 10% Glycerol, pH 5.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Kallikrein-5 Protein appears to play a potential role in desquamation, suggesting involvement in the intricate processes of skin shedding and exfoliation. Its potential connection to desquamation implies a functional role in regulating the removal of dead skin cells, a crucial aspect of skin homeostasis. Notably, Kallikrein-5 activity is inhibited by Zn2+, indicating a

potential regulatory mechanism for its enzymatic function. Understanding the specific mechanisms through which Kallikrein-5 contributes to desquamation and the regulatory role of Zn2+ could provide valuable insights into its function in skin physiology and shed light on its potential significance in processes related to skin renewal and maintenance. Further exploration of Kallikrein-5's functions may deepen our understanding of its role in skin biology and its potential implications in various physiological contexts.

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