

Kallikrein-4 Protein, Human (H197Q, HEK293, His)

Cat. No.:	HY-P70947
Synonyms:	Kallikrein-4; Enamel Matrix Serine Proteinase 1; Kallikrein-Like Protein 1; KLK-L1; Prostate; Serine Protease 17; KLK4; EMSP1; PRSS17; PSTS
Species:	Human
Source:	HEK293
Accession:	Q9Y5K2 (S27-S254, H197Q)
Gene ID:	9622
Molecular Weight:	25-32 kDa

PROPERTIES

AA Sequence	<p> S C S Q I I N G E D C S P H S Q P W Q A A L V M E N E L F C S G V L V H P Q W V L S A A H C F Q N S Y T I G L G L H S L E A D Q E P G S Q M V E A S L S V R H P E Y N R P L L A N D L M L I K L D E S V S E S D T I R S I S I A S Q C P T A G N S C L V S G W G L L A N G R M P T V L Q C V N V S V V S E E V C S K L Y D P L Y H P S M F C A G G G Q D Q K D S C N G D S G G P L I C N G Y L Q G L V S F G K A P C G Q V G V P G V Y T N L C K F T E W I E K T V Q A S </p>
Biological Activity	Measured by its ability to cleave 100µM fluorogenic peptide substrate Boc-VPR-AMC (HY-137784) that incubate at 37°C in kinetic mode for 5 minutes. The specific activity is 412.94 pmol/min/µg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
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 from date of receipt. 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	Kallikrein-4 Protein plays a significant role in enamel formation, particularly during the maturation stage of tooth development. It is essential for the clearance of enamel proteins and contributes to the normal structural patterning of the crystalline matrix. This underscores the protein's crucial involvement in the intricate processes underlying tooth
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development and enamel maturation, highlighting its importance for proper dental structure and function.

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

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