

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

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

### PROPERTIES

<b>AA Sequence</b>	<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>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	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).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	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 development and enamel maturation, highlighting its importance for proper dental structure and function.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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