

Kallikrein-11 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73847
Synonyms:	Kallikrein-11; TLSP; hK11; Hippostasin; Trypsin-like protease; Serine protease 20
Species:	Mouse
Source:	HEK293
Accession:	Q9QYN3-1 (E45-N276)
Gene ID:	56538
Molecular Weight:	Approximately 35-43 kDa due to the glycosylation

PROPERTIES

AA Sequence	<pre> E T R I I K G Y E C R P H S Q P W Q V A L F Q K T R L L C G A T L I A P K W L L T A A H C R K P H Y V I L L G E H N L E K T D G C E Q R R M A T E S F P H P D F N N S L P N K D H R N D I M L V K M S S P V F F T R A V Q P L T L S P H C V A A G T S C L I S G W G T T S S P Q L R L P H S L R C A N V S I I E H K E C E K A Y P G N I T D T M L C A S V R K E G K D S C Q G D S G G P L V C N G S L Q G I I S W G Q D P C A V T R K P G V Y T K V C K Y F N W I H E V M R N N </pre>
Biological Activity	Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The specific activity is 335.177 pmol/min/μg, as measured under the described conditions.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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	Kallikrein-11 protein is proposed as a potential multifunctional protease with demonstrated efficacy in cleaving 'bz-Phe-Arg-4-methylcoumaryl-7-amide,' a substrate specific to kallikrein. Additionally, it exhibits weaker cleavage activity towards
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other substrates associated with kallikrein and trypsin. This multifunctional nature suggests a versatility in substrate recognition and cleavage, highlighting its potential role in various proteolytic processes.

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

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