

Kallikrein-2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70317
Synonyms:	rHuKallikrein 2/KLK2, His; Kallikrein-2; Glandular Kallikrein-1; hGK-1; Tissue Kallikrein-2; KLK2
Species:	Human
Source:	HEK293
Accession:	P20151 (P19-P261)
Gene ID:	3817
Molecular Weight:	Approximately 32.0 kDa

PROPERTIES

AA Sequence	<p> P L I Q S R I V G G W E C E K H S Q P W Q V A V Y S H G W A H C G G V L V H P Q W V L T A A H C L K K N S Q V W L G R H N L F E P E D T G Q R V P V S H S F P H P L Y N M S L L K H Q S L R P D E D S S H D L M L L R L S E P A K I T D V V K V L G L P T Q E P A L G T T C Y A S G W G S I E P E E F L R P R S L Q C V S L H L L S N D M C A R A Y S E K V T E F M L C A G L W T G G K D T C G G D S G G P L V C N G V L Q G I T S W G P E P C A L P E K P A V Y T K V V H Y R K W I K D T I A A N P </p>
Biological Activity	Measured by its ability to cleave a flourogenic peptide substrate Z-Phe-Arg-7-amido-4-methylcoumarin (FR-AMC). The specific activity is 198 pmol/min/μg.
Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Acetate, 250 mM Trehalose, 0.02% Tween 80, pH 5.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	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-2 is a member of the glandular kallikrein family, exhibiting enzymatic activity by cleaving Met-Lys and Arg-Ser bonds in kininogen, resulting in the release of Lys-bradykinin. As part of the kinin-kallikrein system, Kallikrein-2 contributes to the generation of bradykinin, a potent vasoactive peptide involved in the regulation of blood pressure, inflammation, and
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vascular permeability. By specifically cleaving these bonds in kininogen, Kallikrein-2 plays a crucial role in the controlled release of Lys-bradykinin, influencing downstream physiological processes.

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

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