

Kallikrein-1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70302
Synonyms:	rMuKallikrein-1, His ; Glandular kallikrein K1; KAL-B; Renal kallikrein; Tissue kallikrein-6; mGK-6
Species:	Mouse
Source:	HEK293
Accession:	P15947 (P19-D261)
Gene ID:	16612
Molecular Weight:	34-38 kDa

PROPERTIES

AA Sequence	<p> P P V Q S R I V G G F N C E K N S Q P W Q V A V Y R F T K Y Q C G G I L L N A N W V L T A A H C H N D K Y Q V W L G K N N F L E D E P S A Q H R L V S K A I P H P D F N M S L L N E H T P Q P E D D Y S N D L M L L R L K K P A D I T D V V K P I D L P T E E P K L G S T C L A S G W G S I T P V K Y E Y P D E L Q C V N L K L L P N E D C A K A H I E K V T D D M L C A G D M D G G K D T C A G D S G G P L I C D G V L Q G I T S W G P S P C G K P N V P G I Y T R V L N F N T W I R E T M A E N D </p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 7.5.
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. 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-1 is a protein belonging to the glandular kallikrein family, and it exhibits proteolytic activity by cleaving Met-Lys and Arg-Ser bonds in kininogen, leading to the release of Lys-bradykinin. This enzymatic activity positions Kallikrein-1 as a key player in the kinin-kallikrein system, a complex pathway involved in the regulation of blood pressure, inflammation, and
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vascular permeability. By generating Lys-bradykinin, Kallikrein-1 contributes to the production of bradykinin, a potent vasoactive peptide with various physiological effects.

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

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