

Plasma kallikrein/KLKB1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77973
Synonyms:	Plasma kallikrein; PKK; KLK3; KLKB1; Fletcher factor; Kininogenin
Species:	Mouse
Source:	HEK293
Accession:	P26262 (G20-A638)
Gene ID:	16621
Molecular Weight:	75-85 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 20 mM NaAc, 150 mM NaCl, 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	The Plasma kallikrein/KLKB1 protein demonstrates enzymatic activity by selectively cleaving Lys-Arg and Arg-Ser bonds. Upon binding to a negatively charged surface, it initiates a reciprocal activation of factor XII. Additionally, the protein plays a crucial role in releasing bradykinin from HMW kininogen. Intriguingly, it is implicated in the renin-angiotensin system, potentially contributing to the conversion of prorenin into renin. This intricate interplay underscores the diverse and essential functions of the Plasma kallikrein/KLKB1 protein in various physiological processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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