

Kallikrein-15 Protein, Human (HEK293, His)

Cat. No.:	HY-P77048
Synonyms:	ACO protease; KLK15; kallikrein-related peptidase 15
Species:	Human
Source:	HEK293
Accession:	Q9H2R5/NP_059979.2 (Q17-N256)
Gene ID:	55554
Molecular Weight:	Approximately 27.8 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 0.2 µm filtered solution of PBS, pH 7.4.
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	<p>Kallikrein-15 (KLK15) is a kallikrein (KLK). Previous research has suggested that KLK15 may play a role in prostate cancer. Chemical analysis of immunohistology of testes showed that KLK15 is strongly expressed in mature sperm cells but not in immature germ cells. The subcellular localization of KLK15 in the basal cell layer of the prostate epithelium is primarily in the nucleus. KLK15 also has trypsin-like activity and preferentially cleaves after arginine (R). KLK15 may be able to cleave many extracellular matrix (ECM) components, functionally similar to some KLK family members. The enzymatic activity of KLK15 is regulated by different factors such as pH, cations, and serine protease inhibitors. Notably, KLK15 is most likely associated with tumorigenesis by interacting with the extracellular matrix (ECM) receptor group and may promote metastasis through this mechanism.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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