

## Kallikrein-15 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P77047
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 53.1 kDa.

### PROPERTIES

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 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 <sub>2</sub> 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-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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA