

## Kallikrein-6 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P70887
<b>Synonyms:</b>	Kallikrein-6; Neurosin; Protease M; SP59; Serine Protease 18; Serine Protease 9; Zyme; KLK6; PRSS18; PRSS9
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q92876 (E17-K244)
<b>Gene ID:</b>	5653
<b>Molecular Weight:</b>	32&20&10 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> E E Q N K L V H G G   P C D K T S H P Y Q   A A L Y T S G H L L   C G G V L I H P L W V L T A A H C K K P   N L Q V F L G K H N   L R Q R E S S Q E Q   S S V V R A V I H P D Y D A A S H D Q D   I M L L R L A R P A   K L S E L I Q P L P   L E R D C S A N T T S C H I L G W G K T   A D G D F P D T I Q   C A Y I H L V S R E   E C E H A Y P G Q I T Q N M L C A G D E   K Y G K D S C Q G D   S G G P L V C G D H   L R G L V S W G N I P C G S K E K P G V   Y T N V C R Y T N W   I Q K T I Q A K           </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 5 mM HCl, 150 mM NaCl.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

<b>Background</b>	Kallikrein-6, a serine protease, displays a preference for Arg over Lys in the substrate P1 position and for Ser or Pro in the P2 position. It exhibits activity against diverse substrates, including amyloid precursor protein, myelin basic protein, gelatin, casein, and extracellular matrix proteins such as fibronectin, laminin, vitronectin, and collagen. Notably, Kallikrein-6 degrades alpha-synuclein, preventing its polymerization and suggesting a potential involvement in the pathogenesis of Parkinson's disease and other synucleinopathies. Additionally, it may play a role in regulating axon outgrowth following
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spinal cord injury. Tumor cells treated with a neutralizing KLK6 antibody demonstrate reduced migration, indicating a potential role in invasion and metastasis. Kallikrein-6 is susceptible to inhibition by various serine protease inhibitors, including soybean trypsin inhibitor, benzamidine, and serpins. Furthermore, its activity is modulated by several glycosaminoglycans, such as chondroitin sulfate, dermatan sulfate, heparan sulfate, and heparin.

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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