

## Kallikrein-8 Protein, Mouse (P.pastoris, His)

<b>Cat. No.:</b>	HY-P71832
<b>Synonyms:</b>	Klk8; Nrpn; Prss19Kallikrein-8; mK8; EC 3.4.21.118; Neuropsin; NP; Serine protease 19
<b>Species:</b>	Mouse
<b>Source:</b>	P. pastoris
<b>Accession:</b>	Q61955 (I33-D260)
<b>Gene ID:</b>	259277
<b>Molecular Weight:</b>	Approximately 32 kDa. The reducing (R) protein migrates as 32 kDa in SDS-PAGE due to glycosylation.

### PROPERTIES

<b>AA Sequence</b>	<pre> I L E G R E C I P H   S Q P W Q A A L F Q   G E R L I C G G V L   V G D R W V L T A A H C K K Q K Y S V R   L G D H S L Q S R D   Q P E Q E I Q V A Q   S I Q H P C Y N N S N P E D H S H D I M   L I R L Q N S A N L   G D K V K P V Q L A   N L C P K V G Q K C I I S G W G T V T S   P Q E N F P N T L N   C A E V K I Y S Q N   K C E R A Y P G K I T E G M V C A G S S   N G A D T C Q G D S   G G P L V C D G M L   Q G I T S W G S D P C G K P E K P G V Y   T K I C R Y T T W I   K K T M D N R D           </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>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Kallikrein-8, a serine protease, exhibits the capability to degrade various proteins, including casein, fibrinogen, kininogen, fibronectin, and collagen type IV. Moreover, it cleaves L1CAM in response to heightened neural activity, thereby inducing
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neurite outgrowth and fasciculation in cultured hippocampal neurons. This protease plays a pivotal role in the formation and maturation of orphan and small synaptic boutons in the Schaffer-collateral pathway, regulates Schaffer-collateral long-term potentiation in the hippocampus, and is essential for memory acquisition and synaptic plasticity. Additionally, Kallikrein-8 is involved in skin desquamation and keratinocyte proliferation, contributing to these processes. Furthermore, it plays a significant role in the secondary phase of pathogenesis following spinal cord injury, underscoring its diverse functions in neural and cutaneous processes.

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

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