

## Overview

<b>Synonyms</b>	KLK6
<b>Description</b>	<p><b>Kallikrein 6 (KLK-6)</b>, also known as Zyme, Neurosin, PRSS9, myelencephalon-specific protease (MSP) and protease M, is a trypsin-like serine proteinase. Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis, and some have potential as novel cancer and other disease biomarkers. KLK-6 was originally characterized from the brain as an enzyme involved in the degradation of amyloid plaque protein (APP) and was thought to be a beta secretase. KLK-6 was shown to be elevated in the sera of patients with Alzheimer's disease, Parkinson's disease and in animal models of multiple sclerosis. Studies indicate KLK-6 may participate in the demyelination processes and progression of CNS inflammatory disease.</p> <p>Recombinant Human <b>Kallikrein 6</b> produced in <i>CHO</i> cells is a polypeptide chain containing 238 amino acids. A fully biologically active molecule, rhKLK6 has a molecular mass of 31 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
<b>Accession No</b>	Q92876
<b>Source</b>	<i>CHO</i>
<b>Biological Activity</b>	<p>The Specific Activity is &gt; 1200 pmol/min/μg, Measured by hKLK6's ability to cleave the fluorogenic peptide substrate Boc-Gln-Ala-Arg-AMC (R&amp;D, ES014)</p> <p><b>Activation Buffer:</b> 50 mM Tris, 0.05% (w/v) Brij35, pH 8.0</p> <p><b>Assay Buffer:</b> 50 mM Tris, 1.0 M sodium Citrate, pH 7.5</p> <p><b>Activate hKLK6:</b> Dilute hKLK6 to 200 ug/ml in Activation Buffer Dilute lysyl endpeptidase to 2.5 mU/mL in Activation Buffer. Combine equal volumes of 200 ug/ml hKLK6 and 2.5mU/ml lysyl-endpeptidase Incubate at room temperature for 30 minutes.</p>
<b>Sequence</b>	<pre>EEQNKLHVGG PCDKTSHPYQ AALYTSGLL CGGVLIHPLW VLTAAHCKKP NLQVFLGKHNL RQRESSQEQ SSVVRAVIHP DYDAASHDQD IMLLRLARPA KLSELIQPLP LERDCSANTT SCHILGWGKT ADGDFPDTIQ CAYIHLVSRE ECEHAYPGQI TQNMLCAGDE KYGKDSCQGD SGGPLVCGDH LRGLVSWGNI PCGSKEKPGV YTNVCRYTNW IQKTIQAKHH HHHHHHHH</pre>

## Properties

<b>Measured Molecular Weight</b>	31 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Formulation</b>	Liquid after a 0.2 μm filtered solution in 25 mM NaOAc, 50 mM NaCl, pH 6.0.
<b>Endotoxin Level</b>	< 0.2 EU/μg, determined by LAL method.
<b>Storage</b>	Recombinant <b>Human Kallikrein 6</b> remains stable up to 6 months at lower than -70°C from date of receipt under sterile conditions. Up to 3 months at lower than -70°C under sterile conditions after opening. Avoid repeated freeze-thaw cycles.
<b>Note</b>	For research use only

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,  
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com)

Web: [www.lifetechindia.com](http://www.lifetechindia.com)