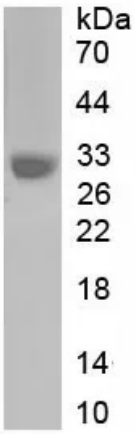
Active Kallikrein 6 (KLK6)

Catalog#:PHM12470

概述（Summary）

别称（Alternative Names）	ZYME; Bssp; Klk7; Neurosin,Zyme; PRSS18; PRSS9; SP59; HK6; Protease M; Serine protease 18
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Glu24-Leu253】
Accession #	Q91Y82
表达宿主（Host）	293F
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	27.4 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

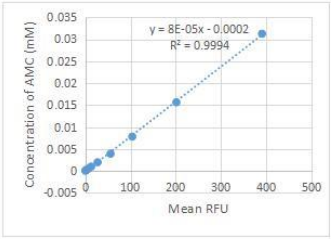


Figure 1. The standard curve of AMC

RFU	AMC (mM)
390.1509	0.03125
201.1509	0.015625
103.9509	0.0078125
56.0009	0.00390625
27.4709	0.001953125
13.1709	0.000976563
6.5189	0.000488281
3.0259	0.000244141
1.4129	0.00012207
0.7129	6.10352E-05

One unit of enzyme activity is defined as the 1 µg of enzyme required to convert 1 pmol of Boc-QAR-AMC to AMC in 1min.

Specific Activity (pmol/min/µg)= $\frac{\Delta OD * F}{T * N}$

△OD=Adjusted for Substrate Blank

F=Conversion Factor (convert from standard curve of AMC)

T= Time

Tissue kallikreins are a family of extracellular serine proteases consisting of 15 members. Tissue kallikreins have attracted great interest as potential biomarkers for various cancers, including prostate, ovarian, breast, testicular, and lung. Human Kallikrein 6 (hKLK6) is a member of tissue kallikrein family observed in breast and brain tissues, colon carcinoma cells, and oligodedrocytes. Known protein substrates of hKLK6 are myelin basic protein, the precursor of the A beta amyloid peptide, and plasminogen. Its physiological functions may include the participation in demyelination processes as well as in the progression of inflammatory disease of the CNS. The activity assay of recombinant mouse KLK6 was measured by its ability to cleave the fluorogenic peptide substrate Boc-QAR-AMC. The rmKLK6 was activated by Lysyl-endopeptidase in the activation buffer 50 mM Tris, 0.05% (w/v) Brij-35, pH 8.0, of which equal volumes of 200 ug/ml rmKLK6 and 2.5 mU/ml Lysyl-endopeptidase were combined and incubated at room temperature for 30 minutes. The activated rmKLK6 was diluted to 3 ug/ml in assay buffer and start the reaction by adding 50 µL of 200 µM substrate. Read at excitation and emission wavelengths of 380 nm and 460 nm (top read), respectively, in kinetic mode for 5 minutes. The specific activity of recombinant mouse KLK6 is >6000 pmol/min/µg.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.