

# Recombinant mouse Kallikrein 8/CLK8 protein

Catalog Number: ATGP3553

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

29-260aa

### UniProt No.

Q61955

### NCBI Accession No.

NP\_032966

### Alternative Names

Kallikrein-8, Klk8, BSP1, NP, Nrpn, Prss19, Neuropsin, Kallikrein related peptidase 8, HNP, TADG14, neuropsin, ovasin

## PRODUCT SPECIFICATION

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### Molecular Weight

26.5 kDa (240aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Klk8, as known as kallikrein-8, is a member of the tissue kallikrein family. This protein is capable of degrading a number of proteins such as casein, fibrinogen, fibronectin and collagen type IV. Also, it cleaves L1CAM in response to increased neural activity and induces neurite outgrowth and fasciculation of cultured hippocampal

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neurons. It plays a 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 required for memory acquisition and synaptic plasticity. Recombinant mouse Klk8, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

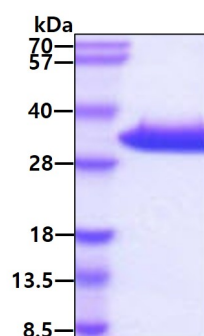
QGSKILEGRE CIPHSQPWQA ALFQGERLIC GGVLVGDRWV LTAAHCKKQK YSVRLGDHSL QSRDQPEQEI QVAQSIQHPC  
YNNSPEDHS HDIMLIRLQN SANLGDKVKP VQLANLCPKV GQKCIISGWG TVTSPQENFP NTLNCAEVKI YSQNK CERAY  
PGKITEGMVC AGSSNGADTC QGDSGGPLVC DGMLQGITSW GSDPCGKPEK PGVYTKICRY TTWIKKTMDN  
RD<LEHHHHHH>

## General References

Kishibe M., et al, (2012) J. Invest. Dermatol. 132:1717-1724.  
Attwood BK., et al, (2011) Nature 473:372-375.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.