

# Human KLK4/Kallikrein 4 (His Tag) recombinant protein



Catalog Number: 504592

## General Information

### Gene Name Synonym

EC 3.4.21.-; Enamel matrix serine proteinase 1; Kallikrein-like protein 1; KLK-L1; Prostase; Serine protease 17

### Protein Construction

A DNA sequence encoding the human KLK4 (NP\_004908.3) (Met 1-Ser 254) was expressed, with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC. (R&D Systems, Catalog # ES011). The specific activity is >250 pmoles/min/μg.

### Purity

> 94 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Ser 27

## Molecular Mass

The secreted recombinant human KLK4 consists of 239 amino acids and predicts a molecular mass of 25.8 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhKLK4 is approximately 30-35 kDa due to glycosylation.

## Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

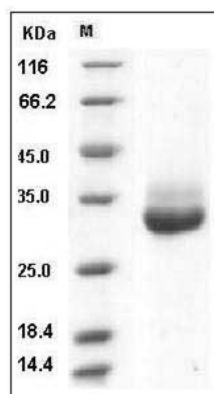
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Human KLK-4 / Kallikrein-4 Protein (His Tag)  
SDS-PAGE