

## Active Recombinant Human KLK1 protein, His-tagged

**Cat. No.** KLK1-299H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human KLK1 protein(NP_002248.1)(Met1-Ser262), fused with His tag, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met1-Ser262
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
<b>Bio-activity</b>	Measured by its ability to cleave a flourogenic peptide substrate Pro-Phe-Arg-7-amid o-4-methylcoumarin (PFR-AMC). The specific activity is >1,500 pmoles/min/μg.(Activation description: The proenzyme needs to be activated by Thermolysin for an activated form)
<b>Molecular Mass</b>	The secreted recombinant human KLK1 is a monomeric protein after cleavage of the signal peptide. It consists of 251 amino acids and predicts a molecular mass of 28 kDa. In SDS-PAGE under reducing conditions, it migrates with the apparent molecular mass of 50 kDa due to glycosylation.
<b>Endotoxin</b>	< 1.0 EU per μg of the protein as determined by the LAL method

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<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. 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.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	KLK1 kallikrein 1 [ Homo sapiens ]
<b>Official Symbol</b>	KLK1
<b>Synonyms</b>	KLK1; kallikrein 1; kallikrein 1, renal/pancreas/salivary; kallikrein-1; Klk6; tissue kallikrein; glandular kallikrein 1; kallikrein serine protease 1; kidney/pancreas/salivary gland kallikrein; hK1; KLKR;
<b>Gene ID</b>	3816
<b>mRNA Refseq</b>	NM_002257
<b>Protein Refseq</b>	NP_002248
<b>UniProt ID</b>	P06870

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