

## Recombinant Human KLK7 protein(Met1-Arg253), His-tagged

Cat. No. KLK7-893H    Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human KLK7 (NP_005037.1) (Met 1-Arg 253) was expressed in HEK293, with a C-terminal polyhistidine tag.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-253 a.a.
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK (Dnp) NH2. The specific activity is >150 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 KLK7 comprises 242 amino acids and has a predicted molecular mass of 26.7 kDa. As a result of glycosylation, the apparent molecular mass of rh KLK7 is approximately 30-33 kDa in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method
<b>Purity</b>	> 97 % as determined by SDS-PAGE

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1/2

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**Storage** 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.

**Reconstitution** 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>	KLK7 kallikrein-related peptidase 7 [ Homo sapiens ]
<b>Official Symbol</b>	KLK7
<b>Synonyms</b>	KLK7; kallikrein-related peptidase 7; kallikrein 7 (chymotryptic, stratum corneum) , PRSS6; kallikrein-7; SCCE; signal protein; serine protease 6; stratum corneum chymotryptic enzyme; kallikrein 7 (chymotryptic, stratum corneum); hK7; PRSS6;
<b>Gene ID</b>	5650
<b>mRNA Refseq</b>	NM_001243126
<b>Protein Refseq</b>	NP_001230055
<b>MIM</b>	604438
<b>UniProt ID</b>	P49862

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