

# 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) NH <sub>2</sub> . 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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**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

**Gene Name** [KLK7 kallikrein-related peptidase 7 \[ Homo sapiens \]](#)

**Official Symbol** [KLK7](#)

**Synonyms** 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;

**Gene ID** [5650](#)

**mRNA Refseq** [NM\\_001243126](#)

**Protein Refseq** [NP\\_001230055](#)

**MIM** [604438](#)

**UniProt ID** [P49862](#)

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