# Active Recombinant Human KLK2 protein, His-tagged

**Cat. No.** KLK2-152H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human KLK2(Met1-Pro261) fused with His tag at C-terminal was expressed in NS0. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **ProteinLength** | 1-261 a.a. |
| **Description** | Kallikrein 2 (KLK2) is a secreted serine protease that is highly expressed in the human prostate gland. It is also known as the prostate-specific glandular kallikrein. The enzyme is highly specific for cleavage after arginine residues. KLK2 is able to activate the urokinase-type plasminogen activator. KLK2 is inhibited by serpins such as protein C inhibitor, antichymotrypsin, and plasminogen activator inhibitor 1. KLK2 is structurally related to KLK3, the prostate-specific antigen (PSA). Like PSA, KLK2 is considered to be a biomarker for prostate cancer. |
| **Predicted N Terminal** | Ile25 & Leu124 |
| **Form** | Supplied as a 0.2 μm filtered solution in Sodium Citrate and NaCl. |
| **Bio-activity** | Measured by its ability to cleave a flourogenic peptide substrate Pro-Phe-Arg-7-amid o-4-methylcoumarin (PFR-AMC). The specific activity is >125 pmol/min/μg. |
| **Molecular Mass** | Predicted Molecular Mass: 28 & 16 kDa;SDS-PAGE: 34 kDa & 15-18 kDa, reducing |

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| | conditions. |
| **Endotoxin** | <1.0 EU per 1 μg of the protein by the LAL method. |
| **Purity** | >85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 μg per lane |
| **Storage** | Avoid repeated freeze-thaw cycles.6 months from date of receipt, -70 centigrade as supplied.3 months, -70 centigrade under sterile conditions after opening. |

## GENE INFORMATION

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| **Gene Name** | KLK2 kallikrein-related peptidase 2 [ Homo sapiens ] |
| **Official Symbol** | KLK2 |
| **Synonyms** | KLK2; kallikrein-related peptidase 2; kallikrein 2, prostatic; kallikrein-2; tissue kallikrein-2; glandular kallikrein 2; glandular kallikrein-1; hK2; hGK-1; KLK2A2; FLJ17010; FLJ17011; MGC12201; |
| **Gene ID** | 3817 |
| **mRNA Refseq** | NM_001002231 |
| **Protein Refseq** | NP_001002231 |
| **MIM** | 147960 |
| **UniProt ID** | P20151 |
| **Chromosome** | 19q13.33 |

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| **Location** | |
| **Pathway** | Activation of Matrix Metalloproteinases, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem; Extracellular matrix organization, organism-specific biosystem |
| **Function** | peptidase activity; serine-type endopeptidase activity; |

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