

## Recombinant Human KLK12 protein, His & T7-tagged

Cat. No. KLK12-7998H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human KLK12 aa. (Ala18~Asn248 (Accession # Q9UKR0)) fused with N-terminal His & T7 tag was produced in E. coli cells.                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | Ala18~Asn248                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Alternate splicing of this gene results in three transcript variants encoding different isoforms. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 28.7kDa                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Characteristic</b>   | The isoelectric point is 7.7.                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>      | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | KLK12 kallikrein related peptidase 12 [ Homo sapiens (human) ]                                  |
| <b>Official Symbol</b> | KLK12                                                                                           |
| <b>Synonyms</b>        | KLK12; kallikrein related peptidase 12; KLKL5; KLK-L5; kallikrein-12; kallikrein-like protein 5 |
| <b>Gene ID</b>         | 43849                                                                                           |
| <b>mRNA Refseq</b>     | NM_019598.2                                                                                     |
| <b>Protein Refseq</b>  | NP_062544.1                                                                                     |

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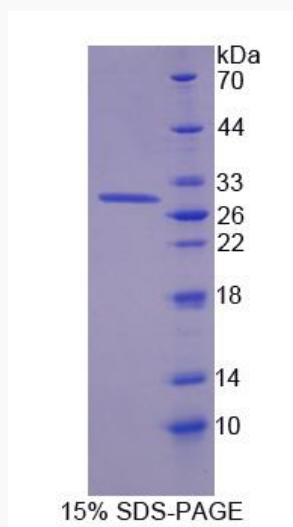
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UniProt ID

Q9UKR0

SDS-PAGE

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