

## Recombinant Human KLK6

**Cat. No.** KLK6-26891TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full length human Kallikrein 6 with proprietary tag, 51.8kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>        | <p>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. The encoded enzyme is regulated by steroid hormones. In tissue culture, the enzyme has been found to generate amyloidogenic fragments from the amyloid precursor protein, suggesting a potential for involvement in Alzheimers disease. Multiple alternatively spliced transcript variants that encode different isoforms have been identified for this gene.</p> |
| <b>Tissue specificity</b> | In fluids, highest levels found in milk of lactating women followed by cerebrospinal fluid, nipple aspirate fluid and breast cyst fluid. Also found in serum, seminal plasma and some amniotic fluids and breast tumor cytosolic extracts. Not detected in urin                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>               | Lyophilised:500ul distilled water for reconstitution then 20mM HEPES, pH 7.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage buffer</b>     | Preservative: NoneConstituents: 10% Glycerol, 20mM HEPES, pH 7.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>            | Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                              |                                                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sequence Similarities</b> | Belongs to the peptidase S1 family. Kallikrein subfamily. Contains 1 peptidase S1 domain.                                                       |
| <b>Full Length</b>           | Full L.                                                                                                                                         |
| <b>GENE INFORMATION</b>      |                                                                                                                                                 |
| <b>Gene Name</b>             | KLK6 kallikrein-related peptidase 6 [ Homo sapiens ]                                                                                            |
| <b>Official Symbol</b>       | KLK6                                                                                                                                            |
| <b>Synonyms</b>              | KLK6; kallikrein-related peptidase 6; kallikrein 6 (neurosin, zyme) , protease, serine, 18 , PRSS9, PRSS18; kallikrein-6; Bssp; Klk7; neurosin; |
| <b>Gene ID</b>               | 5653                                                                                                                                            |
| <b>mRNA Refseq</b>           | NM_001012964                                                                                                                                    |
| <b>Protein Refseq</b>        | NP_001012982                                                                                                                                    |
| <b>MIM</b>                   | 602652                                                                                                                                          |
| <b>Uniprot ID</b>            | Q92876                                                                                                                                          |
| <b>Chromosome Location</b>   | 19q13.3                                                                                                                                         |
| <b>Pathway</b>               | Alpha-synuclein signaling, organism-specific biosystem;                                                                                         |
| <b>Function</b>              | peptidase activity; protein binding; serine-type endopeptidase activity; serine-type endopeptidase activity;                                    |

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