



Synonym

KLK1, Kallikrein-1, KLKR, Klk6

Source

Human Kallikrein 1 (25-262) Protein, His Tag (KL1-H52H4) is expressed from human 293 cells (HEK293). It contains AA Pro 19 - Ser 261 (Accession # [P06870-1](#)).

Predicted N-terminus: Pro 19

Molecular Characterization

Kallikrein 1(Pro 19 - Ser 261)	Poly-his
P06870-1	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 28.3 kDa. The protein migrates as 39-42 kDa and 43-46 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-HPLC.

Formulation

Supplied as 0.2 μ m filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

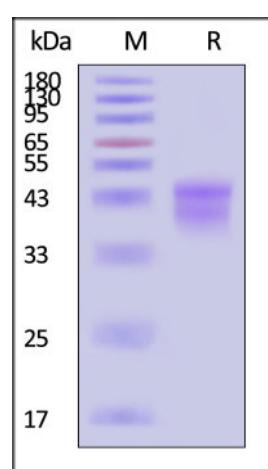
Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

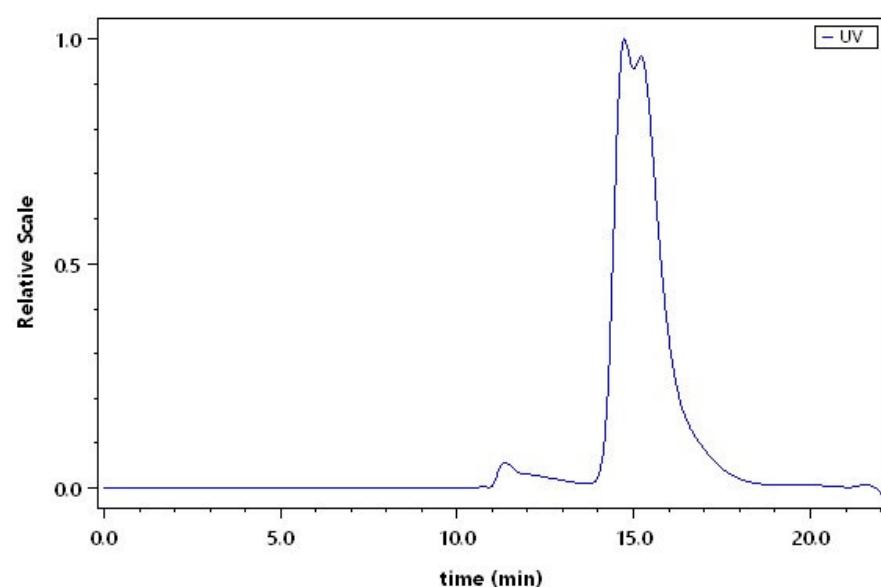
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE



Human Kallikrein 1 (25-262) Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC



The purity of Human Kallikrein 1 (25-262) Protein, His Tag (Cat. No. KL1-H52H4) was greater than 95% as determined by SEC-HPLC.

Bioactivity

Measured by its ability to cleave a fluorogenic peptide substrate Pro-Phe-Arg--7-amido-4-methylcoumarin (PFR-AMC). The specific activity is >8000 pmol/min/ μ g (QC tested).

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**Background**

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. This protein is functionally conserved in its capacity to release the vasoactive peptide, Lys-bradykinin, from low molecular weight kininogen. [provided by RefSeq, Jul 2008]

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