Human Kallikrein 13 / KLK-13 Protein, His Tag (active enzyme)

Catalog # KL3-H52H4

Synonyms

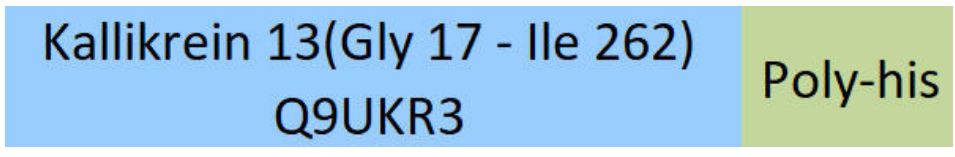
KLK13, KLKL4, KLK-13, Kallikrein-13

Source

Human Kallikrein 13 Protein, His Tag (KL3-H52H4) is expressed from human 293 cells (HEK293). It contains AA Gly 17 - Ile 262 (Accession # Q9UKR3).

Predicted N-terminus: Gly 17

Molecular Characterization



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

The protein has a calculated MW of 28.9 kDa. The protein migrates as 30-38 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 μg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

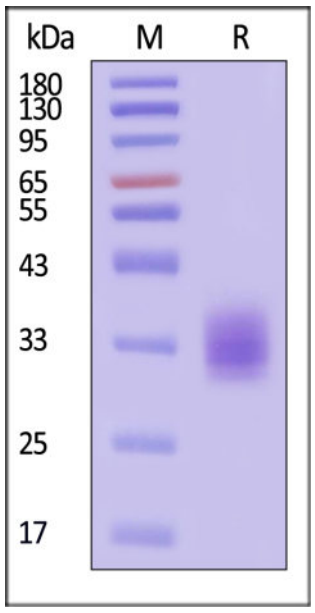
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



Human Kallikrein 13 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).

Bioactivity

Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC. The specific activity is >500 pmol/min/μg (QC tested).

Background

Kallikrein 13 (KLK13), also known as KLK-L4, is a member of the human tissue kallikrein family of serine proteases located on chromosome 19q13.41. It encodes a secreted enzyme of about 277 amino acids that participates in proteolysis and extracellular matrix remodeling. KLK13 is expressed in several tissues, including prostate, breast, testis, and salivary gland. Emerging evidence links KLK13 to cancer biology, particularly in breast, ovarian, and prostate cancers, where it may serve as a biomarker for diagnosis or prognosis. Beyond oncology, KLK13 has been implicated in inflammatory processes and tissue homeostasis, highlighting its diverse physiological roles.