

Human Kallikrein 11/KLK11 Protein (active form)

Cat. No. KLK-HM111

Description

Source	Recombinant Human Kallikrein 11/KLK11 Protein (active form) is expressed from HEK293 with His tag at the C-terminus. It contains Ile54-Asn282.
Accession	Q9UBX7-2
Molecular Weight	The protein has a predicted MW of 26.85 kDa. Due to glycosylation, the protein migrates to 35-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

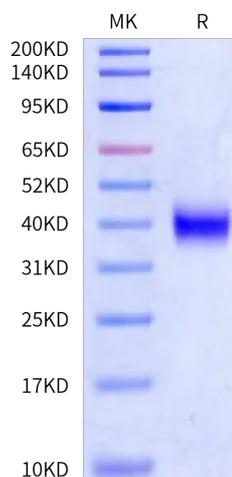
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM HEPES, 150mM NaCl, 8% trehalose, 0.05% Brij-35 (pH 7.5).
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Human kallikrein 11 (hK11/trypsin-like serine protease/TLSP, encoded by the KLK11 gene) is a member of the kallikrein family of secreted serine proteases. Elevated serum hK11 levels were found in 60% of men with prostate cancer and 70% of women with ovarian cancer. Also, hK11 expression was found to be under the regulation of steroid hormones, particularly estrogens, at the level of KLK11 transcription.

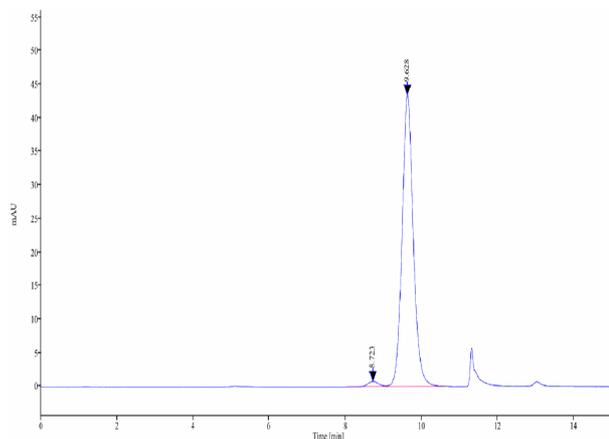
Assay Data

Bis-Tris PAGE



Human Kallikrein 11 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human Kallikrein 11 is greater than 95% as determined by SEC-HPLC.

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Assay Data

Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate: N-carbobenzyloxy-Lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The specific activity is > 1200pmol/min/μg.