

Human Kallikrein 6/KLK6 Protein (pro form)

Cat. No. KLK-HM116

Description

Source	Recombinant Human Kallikrein 6/KLK6 Protein (pro form) is expressed from HEK293 with His tag at the C-terminus. The protein needs to be activated by Lysyl-endopeptidase for an activated form. It contains Glu17-Lys244.
Accession	Q92876-1
Molecular Weight	The protein has a predicted MW of 26.74 kDa. Due to glycosylation, the protein migrates to 27-35 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

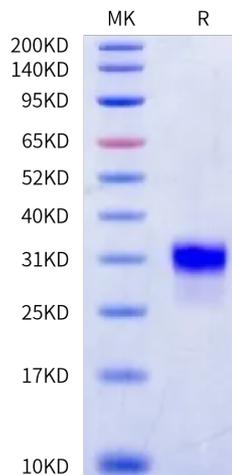
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM NaAC, 150mM NaCl, 8% trehalose, 0.05% Brij-35, 10mM Benzamidine (pH 5.0).
Reconstitution	Dissolve the lyophilized protein in 20mM NaAC (pH 5.0). Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

Kallikrein 6 (KLK6), also referred to as kallikrein-related peptidase 6, is a member of a family of 15 serine proteases aligned in tandem on human chromosome 19q13.3-4. Of all kallikreins, KLK6 is the most abundant in the adult central nervous system (CNS). Within the CNS, KLK6 is expressed at the highest levels in the brain stem and spinal cord where expression is primarily associated with neurons and oligodendrocytes with a relative paucity of expression by astrocytes.

Assay Data

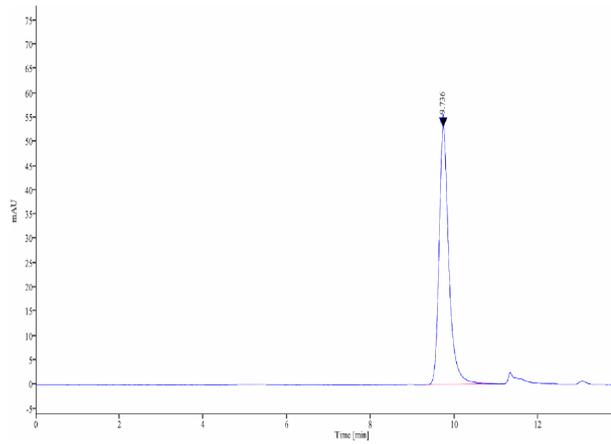
Bis-Tris PAGE



Human Kallikrein 6 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human Kallikrein 6 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: BOC-Gln-Ala-Arg-AMC. The specific activity is >2000 pmol/min/μg.