Human Kallikrein 8/KLK8 Protein (pro form)

Cat. No. KLK-HM118

Description

Source	Recombinant Human Kallikrein 8/KLK8 Protein (pro form) is expressed from HEK293 with His tag at the C-terminus.
	It contains Gln29-Gly260.
Accession	O60259-1
Molecular Weight	The protein has a predicted MW of 26.57 kDa. Due to glycosylation, the protein migrates to 32-38 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

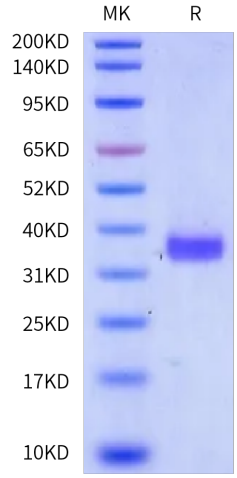
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM HEPES, 150mM NaCl, 8% trehalose (pH 7.5).
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date 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

Neuropsin (NP, kallikrein 8, KLK8) - a kallikrein gene-related (KLK) endoprotease - plays a key role in neuroplasticity processes, since intracellular signal cascades and regulation of gene expression are engaged in long-term synaptic plasticity. Neuropsin is a type of serine proteases, which are involved in extracellular proteolysis. Serine proteases belong to the class of hydrolases, subclass of proteases, and are in charge of selective catalysis of peptide bond hydrolysis.

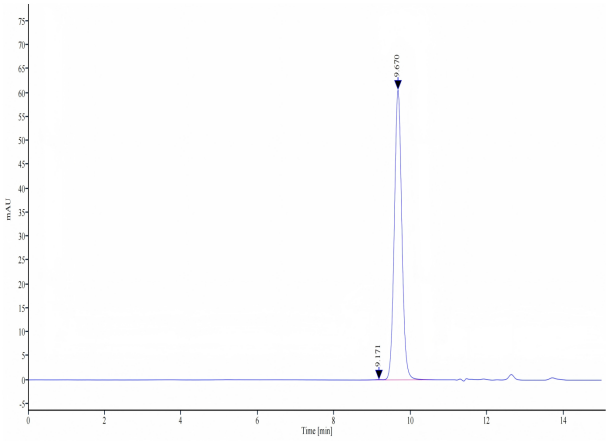
Assay Data

Bis-Tris PAGE



Human Kallikrein 8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human Kallikrein 8 is greater than 95% as determined by SEC-HPLC.

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Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate: BOC-Val-Pro-Arg-AMC. The specific activity is >1200 pmol/min/μg.