Human Kallikrein 12 Protein (active form), Ultra Low Endotoxin

Cat. No. KLK-HM112-UL

Description

Source	Recombinant Human Kallikrein 12 Protein (active form) is expressed from HEK293 with His tag at the C-terminus.
	It contains Ile22-Asn248.
Accession	Q9UKR0-1
Molecular Weight	The protein has a predicted MW of 26.18 kDa. Due to glycosylation, the protein migrates to 35-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE

Formulation and Storage

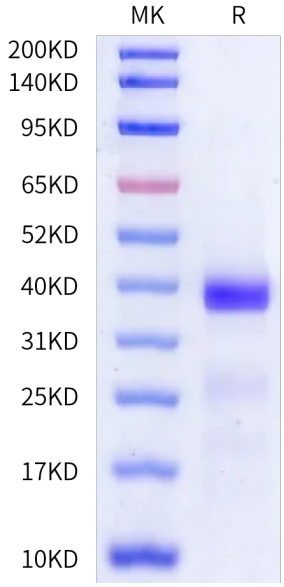
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM NaAC, 150mM NaCl, 8% trehalose, 0.05% Brij 35, 10mM Benzamidine (pH 5.0).
Reconstitution	Dissolve the lyophilized protein in 20mM NaAC (pH 5.0). Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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-related peptidase 12 (KLK12, a member of the kallikrein-related peptidase family ranging from KLK1 to KLK15) is a secreted serine protease with trypsin-like activity. KLK12 is expressed in a large number of human organs and tissues, such as bone, bone marrow, the colon, the lung, the trachea, the prostate, the salivary glands, and the stomach. Expression of KLK12 is dysregulated in several diseases, including breast, gastric and lung cancers.

Assay Data

Bis-Tris PAGE



Human Kallikrein 12 on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC. The specific activity is >15000 pmol/min/μg.