

Biotinylated Human Kallikrein 2/KLK2 Protein (active form)

Cat. No. KLK-HM402B

Description

Source	Recombinant Biotinylated Human Kallikrein 2/KLK2 Protein (active form) is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Ile25-Pro261.
Accession	P20151-1
Molecular Weight	The protein has a predicted MW of 29.21 kDa. Due to glycosylation, the protein migrates to 32-38 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 85% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

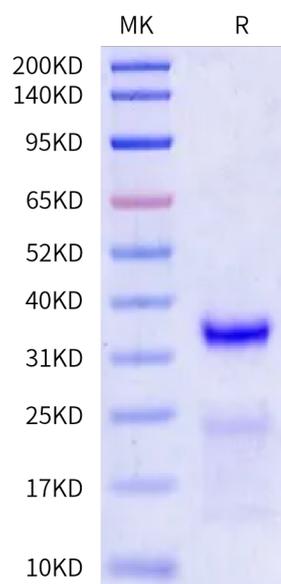
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM Tris, 150mM NaCl, 8% trehalose, 0.05% Brij-35, 5mM Benzamidine (pH 8.0).
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 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

Kallikrein-related peptidase 2 (KLK2) is a serine protease exhibiting antiangiogenic properties through proteolytic activity. KLK2 is overexpressed in prostate cancer and plays a pivotal role in cancer progression, establishing it as a potential therapeutic target.

Assay Data

Bis-Tris PAGE



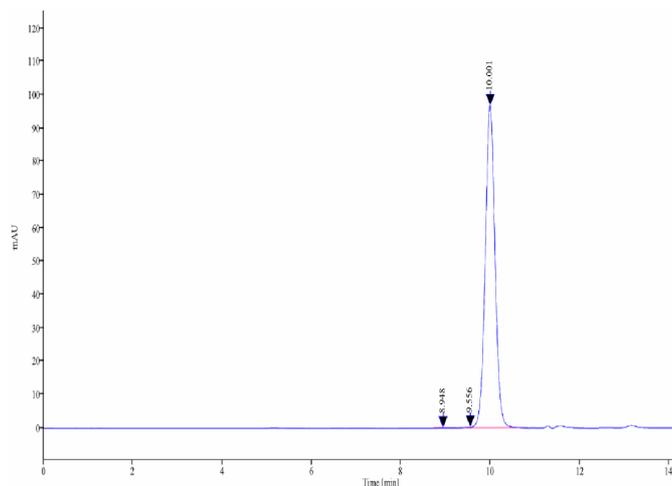
Biotinylated Human Kallikrein 2 on Bis-Tris PAGE under reduced condition. The purity is greater than 85%.

SEC-HPLC

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Assay Data

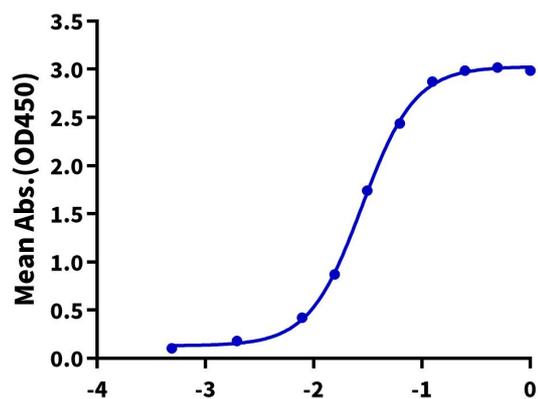


The purity of Biotinylated Human Kallikrein 2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human Kallikrein 2, His Avi Tag ELISA

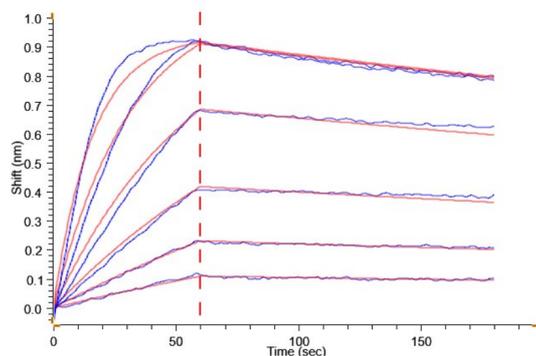
0.05µg Biotinylated Human Kallikrein 2, His Avi Tag Per Well



Immobilized Biotinylated Human Kallikrein 2, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-Kallikrein 2 Antibody, hFc Tag with the EC50 of 28.0ng/ml determined by ELISA.

Log Anti-Kallikrein 2 Antibody, hFc Tag Conc.(µg/ml)

BLI Data



Loaded Anti-Kallikrein 2 Antibody, hFc Tag on ProA-Biosensor can bind Biotinylated Human Kallikrein 2, His-Avi Tag with an affinity constant of 1.89 nM as determined in BLI assay .

Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate: PFR-AMC. The specific activity is >450 pmol/min/µg.