Human Kallikrein 2/KLK2 Protein (active form), Ultra Low Endotoxin

Cat. No. KLK-HM002-UL

Description

Source	Recombinant Human Kallikrein 2/KLK2 Protein (active form) is expressed from HEK293 without tag.
	It contains Ile25-Pro261.
Accession	P20151-1
Molecular Weight	The protein has a predicted MW of 26.15 kDa. Due to glycosylation, the protein migrates to 28-35 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

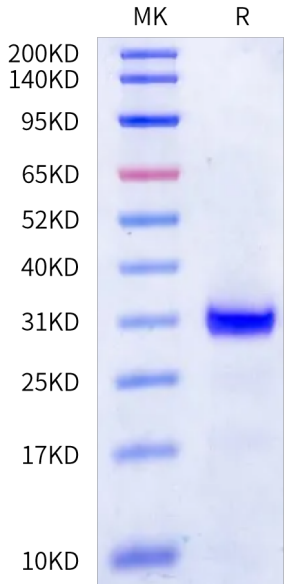
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM Tris, 150mM NaCl, 8% trehalose, 0.05% Brij-35, 5mM Benzamidine (pH 8.0).
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12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



Human Kallikrein 2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

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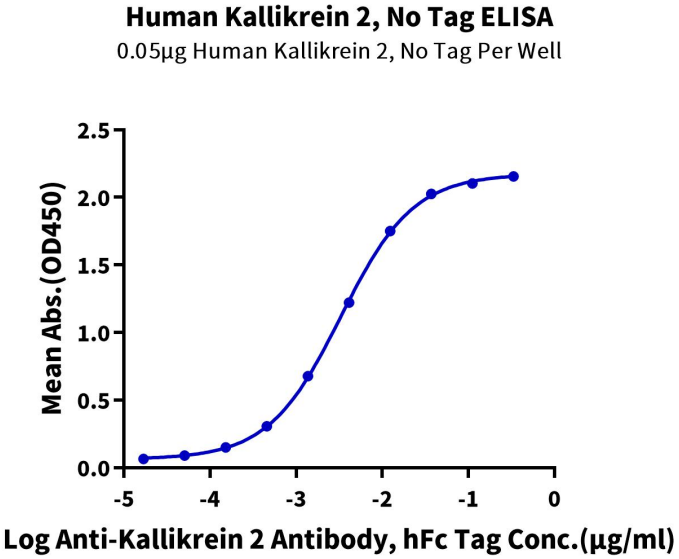
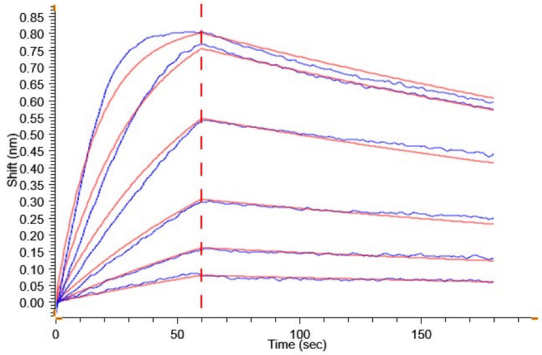
Assay Data



Immobilized Human Kallikrein 2, No Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-Kallikrein 2 Antibody, hFc Tag with the EC50 of 3.3ng/ml determined by ELISA.

BLI Data



Loaded Anti-Kallikrein 2 Antibody, hFc Tag on ProA-Biosensor can bind Human Kallikrein 2, No Tag with an affinity constant of 4.22 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.