

Kallikrein 2/KLK2 Protein, Human, Recombinant (His)

General Information

Synonyms:	hGK-1;Kallikrein-2;Tissue Kallikrein-2;KLK2;Glandular Kallikrein-1
Protein Construction:	Pro19-Pro261
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P20151
Molecular Weight:	(10-12)&(16-19)&(28-33) KDa (reducing condition)
AA Sequence:	Pro19-Pro261

QC Testing

Biological Activity:	Measured by its ability to cleave a flourogenic peptide substrate Z-Phe-Arg-AMC. The specific activity is 145 pmol/min/ μ g. (Regularly tested) Immobilized Recombinant Human KLK2 (C-6His) at 1 μ g/ml (100 μ l/well) can bind Anti-Human KLK2 antibody (Human IgG1). The ED50 of Anti-Human KLK2 antibody (Human IgG1) is 7.06 ng/ml.(Regularly tested) Loaded Anti-Human KLK2 antibody on Pro-A Biosensor, can bind Recombinant Human KLK2 with an affinity constant of 34.4 nM as determined in BLI assay. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 μ m filtered solution of 20 mM Acetate, 250 mM Trehalose, 0.02% Tween 80, pH5.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Kallikrein-2 (KLK2) is a secreted serine protease that belongs to the peptidase S1 family of Kallikrein subfamily. KLK2 contains 1 peptidase S1 domain. It is highly expressed in the human prostate gland. KLK2 can cleave Met-Lys and Arg-Ser bonds in kininogen to release Lys-bradykinin, but Preferential cleavages of Arg-I-Xaa bonds in small molecule substrates. It also highly selective action to release kallidin (lysyl-bradykinin) from kininogen involves

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hydrolysis of Met-|-Xaa or Leu-|-Xaa. KLK2 is inhibited by serpins such as protein C inhibitor, antichymotrypsin, and plasminogen. KLK2 is considered to be a biomarker for prostate cancer.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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