

Kallikrein 5/KLK5 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Protein Construction:	Ile67-Ser293
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9Y337
Molecular Weight:	32.51 kDa (Predicted); 40-50 kDa (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Biotinylated Human Kallikrein 5, His-Avi Tag at 1 µg/ml (100 µl/Well) on streptavidin (5 µg/ml) precoated plate. Dose response curve for Anti-Kallikrein 5 Antibody, hFc Tag with the EC50 of 2.9 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in 50 mM MES, 150 mM NaCl (pH 5.5). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 50 mM MES (pH 5.5). The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The inhibition of kallikrein 5 (KLK5) has been identified as a potential strategy for treatment of the genetic skin disorder Netherton syndrome, in which loss-of-function mutations in the SPINK5 gene lead to down-regulation of the endogenous inhibitor LEKTI-1 and profound skin-barrier defects with severe allergic manifestations. To aid in the development of a medicine for this target, an X-ray crystallographic system was developed to facilitate fragment-guided chemistry and knowledge-based drug-discovery approaches.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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