

## Kallikrein 3/KLK3 Protein, Human, Recombinant (aa 25-261, His)

### General Information

Protein Construction:	Ile25-Pro261
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P07288-1
Molecular Weight:	27.7 kDa (Predicted); 31-38 kDa (Reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Human Kallikrein 3, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-Kallikrein 3 Antibody, hFc Tag with the EC50 of 4.0 ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, 0.05% Brij-35 (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. 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

Kallikrein-related peptidase 3 (KLK3), also known as prostate-specific antigen (PSA), is the most useful biomarker for prostate cancer (PCa). KLK3 is suggested to play a role in regulating cancer growth through anti-angiogenic activity in vivo and in vitro.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481