

Kallikrein 15/KLK15 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	kallikrein-related peptidase 15
Protein Construction:	A DNA sequence encoding the Mouse KLK15 (NP_777354.1) (Gln15-Tyr254) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Gln 15
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	NP_777354.1
Molecular Weight:	27.96 kDa (predicted); 34.26 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

KLK15 (Kallikrein Related Peptidase 15) is a Protein Coding gene. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Human KLK15 may have some utility as a prostate, ovarian, and breast cancer biomarker, based on previous studies, which examined mRNA levels of KLK15. Aberrant KLK15 expression is found in breast, ovarian, and prostate cancers. KLK15 over-expression is reported to be a significant predictor of reduced progression-free survival and overall survival in ovarian cancer. Kallikrein 15 (KLK15)

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/Prostinogen is a plausible candidate for prostate cancer susceptibility. Elevated KLK15 expression has been reported in prostate cancer and it has been described as an unfavorable prognostic marker for the disease.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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