

Kallikrein 12/KLK12 Protein, Human, Recombinant (His)

General Information

Protein Construction:	Ile22-Asn248
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9UKR0-1
Molecular Weight:	26.18 kDa (Predicted); 35-45 kDa (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 90% as determined by Bis-Tris PAGE
Endotoxin:	< 0.1 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm filtered solution in 20 mM NaAC, 150 mM NaCl, 8% trehalose, 0.05% Brij 35, 10 mM Benzamidine (pH 5.0).

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 20 mM NaAC (pH 5.0). 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 12 (KLK12, a member of the kallikrein-related peptidase family ranging from KLK1 to KLK15) is a secreted serine protease with trypsin-like activity. KLK12 is expressed in a large number of human organs and tissues, such as bone, bone marrow, the colon, the lung, the trachea, the prostate, the salivary glands, and the stomach. Expression of KLK12 is dysregulated in several diseases, including breast, gastric and lung cancers.

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