

Recombinant Human KLK7 Protein, His-tagged

Cat. No. KLK7-2375H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KLK7 Protein (Glu23-Arg253) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu23-Arg253
Description	This gene encodes a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikrein genes are biomarkers for cancer. The encoded protein has chymotrypsin-like activity and plays a role in the proteolysis of intercellular cohesive structures that precedes desquamation, the shedding of the outermost layer of the epidermis. The encoded protein may play a role in cancer invasion and metastasis, and increased expression of this gene is associated with unfavorable prognosis and progression of several types of cancer. Polymorphisms in this gene may play a role in the development of atopic dermatitis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, which is one of fifteen kallikrein subfamily members located in a gene cluster on chromosome 19.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.9 kDa Accurate Molecular Mass: 31 kDa

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Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	KLK7 kallikrein-related peptidase 7 [Homo sapiens (human)]
Official Symbol	KLK7
Synonyms	KLK7; kallikrein-related peptidase 7; kallikrein 7 (chymotryptic, stratum corneum), PRSS6; kallikrein-7; SCCE; signal protein; serine protease 6; stratum corneum chymotryptic enzyme; kallikrein 7 (chymotryptic, stratum corneum); hK7; PRSS6;
Gene ID	5650

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mRNA Refseq	NM_001243126
Protein Refseq	NP_001230055
MIM	604438
UniProt ID	P49862

