

# Active Recombinant Mouse Kallikrein Related-Peptidase 5, His-tagged

**Cat. No.** Klk5-1978M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Klk5 protein was expressed in Murine myeloma cell line. Val23-Asn293, with an N-terminal human CD33 signal peptide and a C-terminal 10-His tag.
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>Protein Length</b>	23-293 a.a.
<b>Description</b>	Klk5 is a secreted serine protease with trypsin-like substrate specificity. Klk5 is highly expressed in the skin, and is also known as stratum corneum tryptic enzyme due to its high expression level in this tissue. Klk5 is thought to play an important role in the process of desquamation. Klk5 is a potential biomarker for ovarian and breast cancers. It may also be a physiological activator of KLK7 in the stratum corneum. Recombinant mouse Klk5 is purified as the proform, and can undergo autoactivation under the appropriate conditions.
<b>Form</b>	Supplied as a 0.2 unfiltered solution in Sodium Acetate, NaCl and Glycerol.
<b>N-terminal Sequence</b>	Val23
<b>Molecular Weight</b>	31 kDa
<b>Activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC.

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	This specific activity is > 1,350 pmol/min/μg, as measured under the described conditions.
<b>Endotoxin Level</b>	<1.0EU per 1μg of the protein by the LAL method.
<b>SDS-PAGE</b>	40-50kDa, reducing conditions.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal CoomassieBlue stain at 5 μg per lane.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

## GENE INFORMATION

<b>Gene Name</b>	Klk5 kallikrein-related-peptidase 5 [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	Klk5
<b>Synonyms</b>	Klk5; kallikrein-related-peptidase 5; 1110030O19Rik; kallikrein-5; kallikrein 5
<b>Gene ID</b>	68668
<b>mRNA Refseq</b>	NM_026806
<b>Protein Refseq</b>	NP_081082
<b>UniProt ID</b>	Q9D140
<b>Chromosome</b>	7

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**Location**

**Function**

hydrolase activity;peptidase activity; serine-type endopeptidase activity; serine-type peptidaseactivity

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