

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

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	Mammalian Cells
Protein Length	23-293 a.a.
Description	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.
Form	Supplied as a 0.2 umfiltered solution in Sodium Acetate, NaCl and Glycerol.
N-terminal Sequence	Val23
Molecular Weight	31 kDa
Activity	Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC.

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	The specific activity is > 1,350 pmol/min/μg, as measured under the described conditions.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	40-50kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain at 5 μg per lane.
Storage	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

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

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Location**Function**

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

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