

Active Recombinant Human Kallikrein-Related Peptidase 12, His-tagged

Cat. No. KLK12-1977H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KLK12 protein was expressed in Murine myeloma cellline. Ala18-Asn248, with a C-terminal 10-His tag.
Species	Human
Source	Mammalian Cells
Protein Length	18-248 a.a.
Description	Human tissue KLK12, encoded by the KLK12 gene, is a secreted serine protease that belongs to the human tissue kallikrein family. It is present in many tissues, such as salivary gland, stomach and breast. KLK12 displays trypsin-like enzymatic activity. This activity can be inhibited by Serpin F2. The physiological functions of KLK12 still remain unclear. Its expression is modulated by steroid hormones and is down regulated in breast cancer. Human KLK12 has three splice variants resulting from alternative splicing of the 3' end.
Form	Supplied as a 0.2 µm filtered solution in MES, NaCl and Glycerol.
N-terminal Sequence	Ala18
Molecular Weight	26 kDa
Activity	Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC.

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	The specific activity is > 4,000 pmoles/min/μg, as measured under the described conditions.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	37 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
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	KLK12 kallikrein-related peptidase 12 [Homo sapiens]
Official Symbol	KLK12
Synonyms	KLK12; kallikrein-related peptidase 12; KLKL5; KLK-L5; kallikrein-12; kallikrein12; kallikrein-like protein 5
Gene ID	43849
mRNA Refseq	NM_019598
Protein Refseq	NP_062544
MIM	605539
UniProt ID	Q9UKR0

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Chromosome Location	19q13.33
Function	catalytic activity;peptidase activity; serine-type endopeptidase activity; serine-type peptidaseactivity

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