

## Recombinant Human KLK1 Protein, His-tagged

**Cat. No.** KLK1-074H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human KLK1 protein with His tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	262
<b>Description</b>	<p>Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. This protein is functionally conserved in its capacity to release the vasoactive peptide, Lys-bradykinin, from low molecular weight kininogen.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	27.9 kDa
<b>AA Sequence</b>	<p>MWFLVLCLALSLGGTGAAPP IQSRIVGGWECEQHSQPWQAALYHFSTFQCGGILVH  RQWVLTAAHCISDNYQLWLGRHNLFD DENTAQFVHVSESFPHPGFNMSLLENHTR  QADEDYSHDLMLLRLTEPADTITDAVKVVELPTEEPEVGSTCLASGWGSI EPENFSF  PDDLQCVDL KILPNDECKKAHVQKV TDFMLCVGHLEGGKDT CVGDSGGPLMCDGV  LQGVTSWGYVPCGTPNKPSVAVRVL SYVKWIEDTIAENS</p>

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<b>Purity</b>	> 98%
<b>Applications</b>	WB; ELISA; FACS; FC
<b>Stability</b>	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
<b>Storage</b>	At -20 centigrade.
<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
<b>Reconstitution</b>	Reconstitute in sterile distilled H <sub>2</sub> O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

<b>Gene Name</b>	KLK1 kallikrein 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	KLK1
<b>Synonyms</b>	KLK1; kallikrein 1; kallikrein 1, renal/pancreas/salivary; kallikrein-1; Klk6; tissue kallikrein; glandular kallikrein 1; kallikrein serine protease 1; kidney/pancreas/salivary gland kallikrein; hK1; KLKR;
<b>Gene ID</b>	3816

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<b>mRNA Refseq</b>	NM_002257
<b>Protein Refseq</b>	NP_002248
<b>MIM</b>	147910
<b>UniProt ID</b>	P06870

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