

## 32-7435: Recombinant Human Kallikrein 1/KLK1 (C-6His)

**Gene :** KLK1  
**Gene ID :** 3816  
**Uniprot ID :** P06870

### Description

Source: Human Cells.  
MW :28.15kD.

Recombinant Human Kallikrein 1 is produced by our Mammalian expression system and the target gene encoding Pro19-Ser262 is expressed with a 6His tag at the C-terminus. Kallikrein-1 (KLK1) is a member of human tissue Kallikrein family. Human KLK1 precursor contains a signal peptide (residues 1 to 18), a short pro peptide (residues 19 to 24) and a mature chain (residues 25 to 262). The function of KLK1 is to cleave Kininogen in order to release the vasoactive Kinin peptide (Lysyl-Bradykinin or Bradykinin). The Kinin peptide controls blood pressure reduction, vasodilation, smooth muscle relaxation and contraction, pain induction and inflammation. KLK1 also plays a role in angiogenesis and tumorigenesis.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 2mM CaCl<sub>2</sub>, pH 8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** PPIQSRIVGGWECEQHSQPWQAALYHFSTFQCGGILVHRQWVLTAHCISDNYQLWLGRHNLFDSENTAQFV  
HVSESFPHPGFNMSLLENHTRQADEDYSHDLMLLRLTEPADTITDAVKVVELPTQEPEVGSTCLASGWGSIEPE  
NFSFPDDLQCVDLKILPNDECKKVHVQKVTDFMLCVGHLEGGKDTCVGDSGGPLMCDGVLQGVTSWGYVPC  
GTPNKPSVAVRVLSYVKWIEDTIAENSVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.