Datasheet for ABIN1096996

Kallikrein 1 Protein (KLK1) (AA 19-262) (His tag)

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Overview

Quantity:	50 µg
Target:	Kallikrein 1 (KLK1)
Protein Characteristics:	AA 19-262
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Kallikrein 1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Kallikrein 1/KLK1 (C-6His)
Sequence:	PPIQSRIVGG WECEQHSQPW QAALYHFSTF QCGGILVHRQ WVLTAAHCIS DNYQLWLGRH NLFDDENTAQ FVHVSESFPH PGFNMSLLEN HTRQADEDYS HDLMLLRLTE PADTITDAVK VVELPTQEPE VGSTCLASGW GSIEPENFSF PDDLQCVDLK ILPNDECKKV HVQKVTDFML CVGHLEGGKD TCVGDSGGPL MCDGVLQGVT SWGYVPCGTP NKPSVAVRVL SYVKWIEDTI AENSVDHHHH HH
Characteristics:	Recombinant Human Kallikrein-1/KLK1 produced by transfected human cells is a secreted protein with sequence (Pro19-Ser262) of Human KLK1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Kallikrein 1 (KLK1)
Alternative Name:	kallikrein-1 (KLK1 Products)
Sub Type:	Fusionprotein
Background:	Kallikrein-1 (KLK1) is a member of human tissue Kallikrein family. Human KLK1 precursor contains a singal 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 angiogensis and tumorigenesis. Alternative Names: Kallikrein-1, Kidney/Pancreas/Salivary Gland Kallikrein, Tissue Kallikrein, KLK1
Molecular Weight:	28.15 kDa
UniProt:	P06870
Pathways:	Complement System

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 2 mM CaCl2, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months