Datasheet for ABIN7196666

Kallikrein 6 Protein (KLK6) (His tag)

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Overview

Quantity:	50 µg
Target:	Kallikrein 6 (KLK6)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Kallikrein 6 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Kallikrein 6/KLK6 Protein (His Tag)(Active)
Sequence:	Met 1-Lys 244
Characteristics:	A DNA sequence encoding the human KLK6 isoform 1 (Q92876-1) (Met 1-Lys 244), was fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate Boc-QARAMC, R&D Systems, Catalog # ES014.The specific activity is > 250 pmols/min/µg.(Activation description: The proenzyme needs to be activated by Lysyl-Endopeptidase for an activated form)

Target Details

Target:	Kallikrein 6 (KLK6)

Target Details

Alternative Name:	Kallikrein 6/KLK6 (KLK6 Products)
Background:	Background: KLK6 (kallikrein-related peptidase 6), also known as Klk7, belongs to the peptidase S1 family, Kallikrein subfamily. 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. KLK6 is a serine protease which exhibits a preference for Arg over Lys in the substrate P1 position and for Ser or Pro in the P2 position. Klk7 shows activity against amyloid precursor protein, myelin basic protein, gelatin, casein and extracellular matrix proteins such as fibronectin, laminin, vitronectin and collagen. KLK6 degrades alpha-synuclein and prevents its polymerization, indicating that KLK6 may be involved in the pathogenesis of Parkinson disease and other synucleinopathies. Klk7 may be involved in regulation of axon outgrowth following spinal cord injury. Tumor cells treated with a neutralizing KLK6 antibody migrate less than control cells, suggesting a role in invasion and metastasis. Synonym: Kallikrein-6, Neurosin, Protease M, SP59, Serine Protease 18, Serine Protease 9, Zyme, KLK6, PRSS18, PRSS9
Molecular Weight:	26.6 kDa
Pathways:	Complement System, Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.