Recombinant Human KLK6

Cat. No. KLK6-3929H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KLK6(Met1-Lys244) was expressed with six amino acids (LEVLFQ) at the C- terminus.
Species	Human
Source	Human Cells
ProteinLength	Met1-Lys244
Description	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.
Predicted N Terminal	Glu 17

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Form	Lyophilized from sterile PBS, pH 7.4.1. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.2. Please contact us for any concerns or special requirements.
Molecular Mass	The recombinant human KLK6 consists 235 amino acids and predicts a molecular mass of 25.9 kDa.
Endotoxin	<1.0 EU per μg protein as determined by the LAL method.
Purity	> (61.6 +34.0) % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -231 centigrade
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	KLK6 kallikrein-related peptidase 6 [Homo sapiens]
Official Symbol	KLK6

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Synonyms	KLK6; kallikrein-related peptidase 6; kallikrein 6 (neurosin, zyme) , protease, serine, 18 , PRSS9, PRSS18; kallikrein-6; Bssp; Klk7; neurosin; zyme; protease M; serine protease 9; serine protease 18; hK6; SP59; PRSS9; PRSS18; MGC9355;
Gene ID	5653
mRNA Refseq	NM_002774
Protein Refseq	NP_002765
MIM	602652
UniProt ID	Q92876
Chromosome Location	19q13.3
Pathway	Alpha-synuclein signaling, organism-specific biosystem;
Function	peptidase activity; protein binding; serine-type endopeptidase activity; serine-type endopeptidase activity;

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