

Kallikrein 6 (KLK6) Active Protein | KLK6 active protein

Active Kallikrein 6 (KLK6)

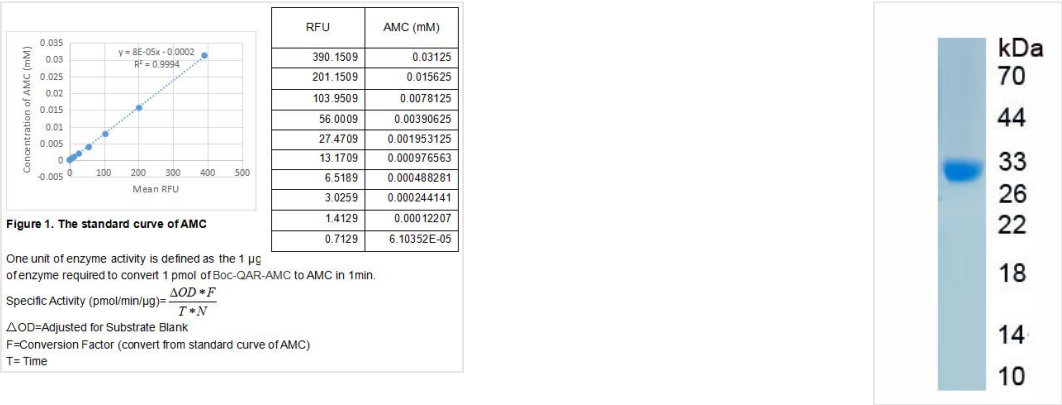
CATALOG # AAA161769	HOST 293F cell	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Kallikrein 6 (KLK6); Active Kallikrein 6 (KLK6); Kallikrein 6; KLK6 active protein (eukaryotic; 293F cell); Mouse; ZYME; Bssp; Klk7; Neurosin; Zyme; PRSS18; PRSS9; SP59; HK6; Protease M; Serine protease 184; KLK6 active protein

PRODUCT SPECIFICATIONS

Host	293F cell
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Glu24~Leu2 53
Applicable Applications for KLK6 active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Eukaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	7.4
Research Area	Enzyme & Kinase, Tumor immunity, Neuro science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



SDS-PAGE
Figure. SDS-PAGE

Bioactivity

Tissue kallikreins are a family of extracellular serine proteases consisting of 15 members. Tissue kallikreins have attracted great interest as potential biomarkers for various cancers, including prostate, ovarian, breast, testicular, and lung. Human Kallikrein 6 (hKLK6) is a member of tissue kallikrein family observed in breast and brain tissues, colon carcinoma cells, and oligodendrocytes. Known protein substrates of hKLK6 are myelin basic protein, the precursor of the A beta amyloid peptide, and plasminogen. Its physiological functions may include the participation in demyelination processes as well as in the progression of inflammatory disease of the CNS. The activity assay of recombinant mouse KLK6 was measured by its ability to cleave the fluorogenic peptide substrate Boc-QAR-AMC. The rmKLK6 was activated by Lysyl-endopeptidase in the activation buffer 50 mM Tris, 0.05% (w/v) Brij-35, pH 8.0, of which equal volumes of 200 ug/ml rmKLK6 and 2.5 mU/ml Lysyl-endopeptidase were combined and incubated at room temperature for 30 minutes. The activated rmKLK6 was diluted to 3 ug/ml in assay buffer and start the reaction by adding 50 uL of 200 uM substrate. Read at excitation and emission wavelengths of 380 nm and 460 nm (top read), respectively, in kinetic mode for 5 minutes. The specific activity of recombinant mouse KLK6 is >6000 pmol/min/ug.

ADDITIONAL INFORMATION

Product Categories/Family for KLK6 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	257796294
NCBI GeneID	19144
NCBI Accession #	NP_001158168.1
NCBI GenBank Nucleotide #	NM_001164696.1
UniProt Accession #	Q91Y82
Molecular Weight	28,329 Da
NCBI Official Full Name	kallikrein-6
NCBI Official Synonym Full Names	kallikrein related-peptidase 6
NCBI Official Symbol	Klk6
NCBI Official Synonym Symbols	BSP; MSP; Bssp; Klk29; Prss9; Prss18; AI849898; neurosin
NCBI Protein Information	kallikrein-6
UniProt Protein Name	Kallikrein 6, isoform CRA_a
UniProt Gene Name	Klk6

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/293f-active-protein/kallikrein-6-klk6/161769>