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Datasheet for ABIN7196673

Kallikrein 8 Protein (KLK8) (His tag)

1 Image

Overview

Quantity:	50 µg
Target:	Kallikrein 8 (KLK8)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Kallikrein 8 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human KLK-8/Kallikrein-8 Protein (His Tag)(Active)
Sequence:	AA 27-260 (without signal peptide AA 1-26)
Characteristics:	A DNA sequence encoding the human KLK8 isoform 1 (O60259-1) (Met 1-Gly 260) was expressed, with a polyhistidine tag at the C-terminus.
Purification:	The amino acid sequence is 27- 260AA, the region of 1- 26AA belongs to signal peptide and it has been natural cleavaged during the protein expression step by Lysyl-Endopeptidase.
Purity:	> 98 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate BocVPRAMC. The specific activity is > 400pmoles/min/µg

Target Details

Target: Kallikrein 8 (KLK8)

Alternative Name: KLK-8/Kallikrein-8 ([KLK8 Products](#))

Background: Kallikrein-8, also known as Neuropsin, Serine protease 19, Serine protease TADG-14, Tumor-associated differentially expressed gene 14 protein and KLK8, is a secreted protein which belongs to the peptidase S1 family and Kallikrein subfamily. It is a serine protease which is capable of degrading a number of proteins such as casein, fibrinogen, kininogen, fibronectin and collagen type IV. Kallikrein-8 / KLK8 plays a role in the formation and maturation of orphan and small synaptic boutons in the Schaffer-collateral pathway. It regulates Schaffer-collateral long-term potentiation in the hippocampus and is required for memory acquisition and synaptic plasticity. It is involved in skin desquamation and keratinocyte proliferation and plays a role in the secondary phase of pathogenesis following spinal cord injury. It also cleaves L1CAM in response to increased neural activity. It induces neurite outgrowth and fasciculation of cultured hippocampal neurons. Kallikrein-8 / KLK8 is expressed at high levels in serum, ascites fluid and tumor cytosol of advanced stage ovarian cancer patients and may serve as a marker of ovarian cancer. Kallikrein-8 / KLK8 may have potential clinical value for disease diagnosis or prognosis and it may also be a useful therapeutic target.

Synonym: Kallikrein-8; hK8; Neuropsin; NP; Ovasin; Serine Protease 19; Serine Protease TADG-14; Tumor-Associated Differentially Expressed Gene 14 Protein; KLK8; NRPN; PRSS19; TADG14

Molecular Weight: 26.4 kDa

Pathways: [Complement System](#)

Application Details

Restrictions: For Research Use only

Handling

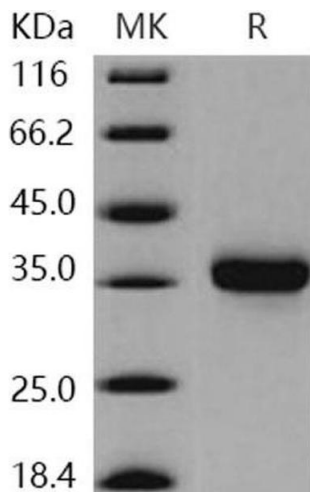
Format: Lyophilized

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.



Western Blotting

Image 1.