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Datasheet for ABIN7534089
Kallikrein 11 Protein (KLK11) (His tag)

Overview

Quantity:	100 µg
Target:	Kallikrein 11 (KLK11)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Kallikrein 11 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Kallikrein-11/KLK11 Protein
Sequence:	MRILQLILLA LATGLVGGET RIIKGFECKP HSQPWQAALF EKTRLLCGAT LIAPRWLLTA AHCLKPRYIV HLGQHNLQKE EGCEQTRTAT ESFPHPGFNN SLPNKDHRND IMLVKMASPV SITWAVRPLT LSSRCVTAGT SCLISGWGST SSPQLRLPHT LRCANITIE HQKCENAYPG NITDTMVCAS VQEGGKDSCQ GDSGGPLVCN QSLQGIISWG QDPCAITRKP GVYTKVCKYV DWIQETMKNN
Specificity:	Met1-Asn250
Purity:	> 92 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The

Product Details

specific activity is >141.40 pmol/min/μg.

Target Details

Target: Kallikrein 11 (KLK11)

Alternative Name: Kallikrein-11/KLK11 ([KLK11 Products](#))

Background: Description: kallikrein-related peptidase 11 (KLK11), also known as hippostasin, trypsin-like serine protease and PRSS20, is a member of human tissue kallikrein family. It is a subgroup of serine proteases with diverse physiological functions, which is implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. The KLK11 gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Two alternatively spliced forms exist, resulting in 250 (isoform 1) and 282 (isoform 2) amino acid sequences, respectively. Isoform 1 is predominantly expressed in brain whereas isoform 2 is preferentially expressed in prostate. KLK11 is a novel marker for ovarian and prostate cancer carcinomas. Recombinant human KLK11, after being activated by thermolysin, is active against a thioester substrate. This activity can be inhibited by AEBSF dichloroisocoumarin, and aprotinin.

Name: KLK11, PRSS20, TLSP

Gene ID: 11012

UniProt: [Q9UBX7](#)

Pathways: [Complement System](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Buffer: Lyophilized from a 0.22 μm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.

Storage: -20 °C, -80 °C

Handling

Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.