Datasheet for ABIN7196669

Kallikrein 7 Protein (KLK7) (His tag)

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Overview

Quantity:	50 µg
Target:	Kallikrein 7 (KLK7)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Kallikrein 7 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Kallikrein 7/KLK7 Protein (His Tag)(Active)
Sequence:	Met 1-Arg 253
Characteristics:	A DNA sequence encoding the human KLK7 (NP_005037.1) extracellular domain (Met 1-Arg 253) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 97 % 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, Mca-RPKPVE-Nval-WRK (Dnp) NH2, R&D Systems, Catalog # ES002. The specific activity is >150 pmoles/min/µg.(Activation description: The proenzyme needs to be activated by Thermolysin for an activated form)

Target Details

Target:	Kallikrein 7 (KLK7)
Alternative Name:	Kallikrein 7/KLK7 (KLK7 Products)
Background:	Background: Kallikrein-7, also known as kallikrein-related peptidase 7, Stratum corneum chymotryptic enzyme, Serine protease 6, KLK7, and PRSS6, is a secreted protein which belongs to the peptidase S1 family and Kallikrein subfamily. Members of the Kallikrein family are involved in various malignancies such as prostate (PSA, KLK2, KLK15), ovarian (KLK4, KLK5, KLK6, KLK8, KLK10), and breast cancer (KLK10, KLK13, KLK14). Kallikrein-7 / KLK7 appears to be increased in ovarian cancer and higher KLK7 expression in ovarian cancer tissue is associated with poorer prognosis of ovarian cancer patients. Kallikrein-7 / KLK7 is abundantly expressed in the skin and is expressed by keratinocytes in the epidermis. Kallikrein-7 / KLK7 is up-regulated in ovarian carcinoma, especially late-stage serous carcinoma, compared with normal ovaries and benign adenomas (at the protein level). It was significantly associated with shorter overall survival (OS) and disease-free survival (DFS). Kallikrein-7 / KLK7 may catalyze the degradation of intercellular cohesive structures in the cornified layer of the skin in the continuous shedding of cells from the skin surface. KLK7 also plays a role in the activation of precursors to inflammatory cytokines. Synonym: Kallikrein-7; hK7; Serine Protease 6; Stratum Corneum Chymotryptic Enzyme; hSCCE; KLK7; PRSS6; SCCE
Molecular Weight:	26.7 kDa
NCBI Accession:	NP_005037
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

Handling

samples are stable at < -20°C for 3 months.