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Datasheet for ABIN7196676

Kallikrein 13 Protein (His tag)

Overview

Quantity:	50 µg
Target:	Kallikrein 13 (KLK13)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Kallikrein 13 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Kallikrein 13/KLK13 Protein (His Tag)(Active)
Sequence:	Met 1-Ile 262
Characteristics:	A DNA sequence encoding the pro-form of human KLK13 (NP_056411.1) (Met 1-Ile 262) was expressed with a C-terminal polyhistidine tag.
Purity:	> 95 % 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 Boc-VPR-AMC (R&D Systems, Catalog # ES011). The specific activity is >200 pmoles/min/µg.(Activation description: The proenzyme needs to be activated by Lysyl-Endopeptidase for an activated form)

Target Details

Target:	Kallikrein 13 (KLK13)
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Target Details

Alternative Name:	Kallikrein 13/KLK13 (KLK13 Products)
Background:	<p>Background: Tissue kallikrein 13 (hK13), also known as KLK-L4 (kallikrein-like gene 4), is a member of the human tissue kallikrein family of serine proteases having diverse physiological functions in many tissues. The KLK13 gene resides on chromosome 19q13.3-4 along with other 14 members in a gene cluster and shares a high degree of homology. KLK13 is a trypsin-like, secreted serine protease expressed specifically in the testicular tissue including prostate, salivary gland, breast, and testis. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and may play a role in metastasis. KLK13 may be involved in the pathogenesis and/or progression of breast and ovary cancers, and is regarded as a novel cancer biomarker. In addition, KLK13 interacts and forms complexes with several serum protease inhibitors, such as alpha2-macroglobulin, and its expression is regulated by steroid hormones.</p> <p>Synonym: Kallikrein-13, Kallikrein-Like Protein 4, KLK-L4, KLK13, KLKL4</p>
Molecular Weight:	28.4 kDa
NCBI Accession:	NP_056411
Pathways:	Complement System

Application Details

Restrictions:	For Research Use only
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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.