

AR50561PU-N

Human KLK7 / Kallikrein-7 (30-253, His-tag) - Purified

Alternate names:

PRSS6, SCCE, Serine protease 6, Stratum corneum chymotryptic enzyme, hK7

Quantity:

0.5 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

KLK7 is a member of the kallikrein subfamily of serine proteases. These enzymes have diverse physiological functions and many kallikreins are biomarkers for cancer. The protein has chymotrypsin-like activity and plays a role in the proteolysis of intercellular cohesive structures that precedes desquamation, the shedding of the outermost layer of the epidermis. KLK7 may play a role in cancer invasion and metastasis, and increased expression of this protein is associated with unfavorable prognosis and progression of several types of cancer. Polymorphisms in this gene may play a role in the development of atopic dermatitis.

Uniprot ID:

[P49862](#)

NCBI:

[NP_005037](#)

GeneID:

[5650](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2M UREA, 10% glycerol

Description:

Recombinant human KLK7 protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMMIDGA PCARGSHPWQ VALLSGNQLH CGGVLVNERW
VLTAACHCKMN EYTVHLGSDT LGDRRAQRIK ASKSRHPGY STQTHVNDLM LVKLNSQARL
SSMVKKVRLP SRCEPPGTTT TVSGWGTTS PDVTFPSDLM CVDVKLISPQ DCTKVYKDLL
ENSMCAGIP DSKKNACNGD SGGPLVCRGT LQGLVSWGTF PCGQPNPDGV YTVCKFTKW
INDTMKKHR

Molecular weight: 27.1 kDa (249aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

Talieri, M., et al. (2011) Anticancer Res. 31 (9), 3093-3100 Ramani, V.C., et al. (2011) Biochim. Biophys. Acta 1813 (8), 1525-1531

Pictures:

