Recombinant human Kallikrein 7/KLK7 protein

Catalog Number: ATGP1737

PRODUCT INFORMATION

Expression system
E.coli

Domain
30-253aa

UniProt No.
P49862

NCBI Accession No.
NP_005037

Alternative Names
Stratum corneum chymotryptic enzyme, Serine protease 6, SCCE, PRSS6, KLK7, Kallikrein-7 isoform 2, Kallikrein-7, Kallikrein related peptidase 7, HK7

PRODUCT SPECIFICATION

Molecular Weight
27.1 kDa (249aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M uREA, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
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.

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Polymorphisms in this gene may play a role in the development of atopic dermatitis. Recombinant human KLK7 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

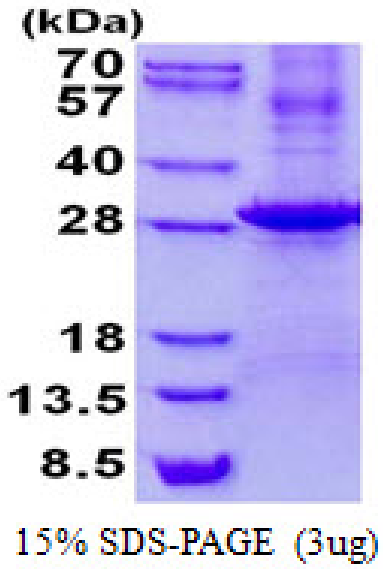
MGSSHHHHHH SSGLVPRGSH MGSHMIIDGA PCARGSHPWQ VALLSGNQLH CGGVLVNERW VLTAAHCKMN EYTVHLGSDT LGDRRAQRIK ASKSFRHPGY STQTHVNDLM LVKLNSQARL SSMVKKVRLP SRCEPPGTTC TVSGWGTTTS PDVTFPSDLM CVDVKLISPQ DCTKVYKDLL ENSMLCAGIP DSKKNACNGD SGGPLVCRGT LQGLVSWGTF PCGQPNDPGV YTQVCKFTKW INDTMKKHR

General References

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.