

Recombinant human Kallikrein 5/KLK5 protein

Catalog Number: ATGP3501

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

67-293aa

UniProt No.

Q9Y337

NCBI Accession No.

NP_001070960

Alternative Names

Kallikrein-5, KLK5, KLKL2, SCTE, Kallikrein related peptidase 5, Kallikrein-like protein 2, Stratum corneum tryptic enzyme

PRODUCT SPECIFICATION

Molecular Weight

26.2 kDa (236aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

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

KLK5, also known as kallikrein-5, is one of the newly identified members of the kallikrein gene family, which is a subgroup of the serine protease enzyme family. It is highly expressed in skin, mammary gland and testis. KLK5 has been suggested to regulate cell shedding (desquamation) in conjunction with KLK7 and KLK14, given its

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ability to degrade proteins which form the extracellular component of cell junctions in the stratum corneum. It is proposed that KLK5 regulates this process since it is able to self-activate in addition to activating KLK7 and KLK14. Recombinant human KLK5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ADLIINGSDC DMHTQPWQAA LLLRPNQLYC GAVLVHPQWL LTAAHCRKKV FRVRLGHYSL SPVYESGQQM FQGVKSIPHP
GYSHPGHSND LMLIKLNRRI RPTKDVRPIN VSSHCPASAGT KCLVSGWGTT KSPQVHFVKV LQCLNISVLS QKRCEDAYPR
QIDDTMFCAG DKAGRDCSQG DSGGPVVCNG SLQGLVSWGD YPCARPNRPG VYTNLCKFTK WIQETIQANS HHHHHH

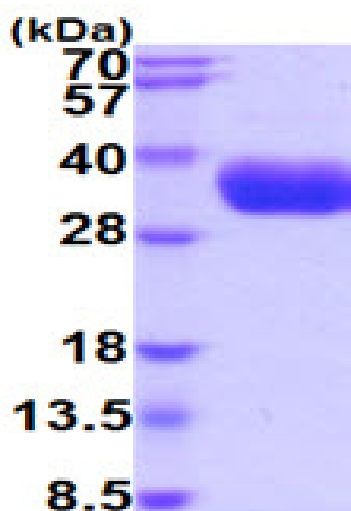
General References

Kim H., et al. (2001) Br J Cancer. 84:643-650.

Pampalakis G., et al. (2014) Oncotarget. 5:2390-2403.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)