10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KLK7

Catalog # PVGS1610

Product Information

Primary Accession	Q91VE3
Species	Mouse
Sequence	Gln22-Arg249
Purity	> 90% as analyzed by SDS-PAGE
Endotoxin Level	
Expression System	CHO
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH_2O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID	23993
Other Names	Kallikrein-7, 3.4.21.117, Serine protease 6, Stratum corneum chymotryptic enzyme, Thymopsin, Klk7, Prss6, Scce
Target Background	Kallikrein-related peptidase 7 (KLK7) is a serine protease and was initially purified from the epidermis and characterised as stratum corneum chymotryptic enzyme (SCCE). It was later identified as the seventh member of the human kallikrein family. KLK7 is secreted as an inactive zymogen in the stratum granulosum layer of the epidermis and may be activated by KLK5 or matriptase. Once active, KLK7 is able to cleave desmocollin and corneodesmosin, indicating a role for KLK7 in maintaining skin homeostasis.

Protein Information

Name	Klk7
Synonyms	Prss6, Scce

Function	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. Specific for amino acid residues with aromatic side chains in the P1 position. Cleaves insulin A chain at '14-Tyr-|-Gln-15' and insulin B chain at '6-Leu-|-Cys-7', '16-Tyr-|-Leu-17', '25-Phe-|-Tyr-26' and '26-Tyr-|-Thr-27'. Could play a role in the activation of precursors to inflammatory cytokines.
Cellular Location	Secreted.
Tissue Location	Expressed in skin and, at lower levels, in lung, kidney, brain, heart and spleen. In skin, expressed in high suprabasal keratinocytes and in the luminal parts of hair follicles. Not detected in liver and skeletal muscle.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.