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## Product Data Sheet

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Product Name: KLK7 Human, sf9  
 Cat. No.: GP21846  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Kallikrein-Related Peptidase 7; Kallikrein 7 (Chymotryptic; Stratum Corneum); Stratum Corneum Chymotryptic Enzyme; Serine Protease 6; PRSS6; SCCE; HK7; Kallikrein-Related Peptidase 7; Signal Protein; EC 3.4.21.117; EC 3.4.21; HSCCE.		
Amino Acid Sequence	ADPMNEYTVH LGSDTLGDRR AQRKASKSF RHPGYSTQTH VNDLMLVKLNSQARLSSMVK KVRLPSRCEP PGTTCTVSGW GTTTSPDVTF PSDLMCVDVK LISPQDCTKV YKDLENSMLCAGIPDSKKN ACNGDSGGPL VCRGTLQGLV SWGTFPCGQP NDPGVYTQVC KFTKWINDTM KKHRHHHHHHH.		
Formulation	KLK7 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

KLK7 catalyzes 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. KLK7 cleaves insulin B chain at "6-Leu- -Cys-7", "16-Tyr- -Leu-17", "25-Phe- -Tyr-26" and "26-Tyr--Thr-27". KLK7 is involved in the activation of precursors to inflammatory cytokines.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

KLK7 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 190 amino acids (1-181 a.a.) and having a molecular mass of 20.9kDa

**Caution: Product has not been fully validated for medical applications. For research use only.**

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(Migrates at 28-40kDa on SDS-PAGE underreducing conditions).

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