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## Product Data Sheet

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Product Name: KLK5 Human  
 Cat. No.: GP21843  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Kallikrein-5; Kallikrein-like protein 2; KLK-L2; Stratum corneum tryptic enzyme; KLK5; SCTE; UNQ570/PRO1132; KLKL2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMMIINGS DCDMHTQPWQ AALLLRPNQL YCGAVLVHPQ WLLTAAHCRK KVFRVRLGHY SLSPVYESGQ QMFQGVKSIP HPGYSHPGHS NDLMLIKLNR RIRPTKDVRP INVSSHCPA GTKCLVSGWG TTKSPQVHFP KVLQCLNISV LSQKRCEDAY PRQIDDTMFC AGDKAGRDC QGDSGGPVVC NGSLQGLVSW GDYPCARPNR PGVYTNLCKF TKWIQETIQA NS.		
Formulation	The KLK5 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2M Urea and 20% glycerol.		

### Introduction

Kallikrein-5 (KLK5) is a member of the serine protease family of proteolytic enzymes. KLK5 is expressed in various tissues including the salivary gland, stomach, uterus, lung, thymus, prostate, colon, brain, thyroid, and trachea. KLK5 expression is up-regulated by estrogens and progestins. KLK5 is secreted and may be involved in desquamation in the epidermis. Kallikreins which are a subgroup of serine proteases, have distinct physiological functions. Many kallikreins are associated with carcinogenesis and some have potential as novel cancer and other disease biomarkers. The KLK5 gene is one of the 15 kallikrein subfamily members located in a cluster on chromosome 19.

### 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.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

KLK5 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 252 amino acids (67-293) and having a molecular mass of 27.8kDa. KLK5 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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