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## Product Data Sheet

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Product Name: KLK2 Human, sf9  
 Cat. No.: GP21840  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	hK2; KLK2A2; Kallikrein-2; Glandular kallikrein-1; hGK-1; issue kallikrein-2; KLK2.		
Amino Acid Sequence	ADPIVGGWEC EKHSQPWQVA VYSHGWAHCG GVLVHPQWVL TAAHCLKKNS QVWLGRHNL F EPEDTGQRVP VSHSFPHP LY NMSLLKHQSL RPDEDSSHDL MLLRLSEPAK ITDVVKVLGL PTQEPALGTT CYASGWGSIE PEEFLRPRSL QCVSLHLLSN DMCARAYSEK VTEFMLCAGL WTGGKDTCCG DSGGPLVCNG VLQGITSWGP EPCALPEKPA VYTKVVHYRK WIKDTIAANP HHHHHH		
Formulation	KLK2 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

KLK2 is a part of the grandular kallikrein protein family whose Members are engaged in a diverse array of biological functions. Kallikreins are a subgroup of serine proteases which are clustered on chromosome 19. KLK2 is a highly active trypsin-like serine protease which selectively cleaves at arginine remains. KLK2 is mostly expressed in prostatic tissue and is accountable for cleaving pro-prostate-specific antigen into its enzymatically active form. KLK2 is greatly expressed in prostate tumor cells and may possibly be a prognostic maker for prostate cancer risk.

### 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

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

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KLK2 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 246 amino acids (25-261 aa) and having a molecular mass of 27.2kDa (Migrates at 28-40kDa on SDS-PAGE under reducing conditions). KLK2 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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