
Product Data Sheet

Product Name: KLK2 Human
 Cat. No.: GP21839
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
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	MGSSHHHHHH SGLVPRGSH MGSIVGGWEC EKHSQPWQVA VYSHGWAHCG GVLVHPQWVL TAAHCLKKNS QVWLGRHNLFPEDTGQRVP VSHSFPHPPLY NMSLLKHQSL RPDEDSSHDL MLLRLSEPAK ITDVVKVLGL PTQEPALGTT CYASGWGSIE PEEFLRPRSL QCVSLHLLSN DMCARAYSEK VTEFMLCAGL WTGGKDTCCG DSGGPLVCNG VLQGITSWGP EPCALPEKPA VYTKVVHYRK WIKDTIAANP.		
Formulation	The KLK2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea 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 E. coli is a single polypeptide chain containing 260 amino acids (25-261) and having a molecular mass of 28.5kDa. KLK2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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