
Product Data Sheet

Product Name: KLK13 Human, sf9

Cat. No.: GP21853

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Kallikrein-Related Peptidase 13; KLK4; Kallikrein-Like Protein 4; Kallikrein 13; KLK-L4; Kallikrein-Like Gene 4; Kallikrein-13; EC3.4.21.-; EC 3.4.21; Kallikrein-13.		
Amino Acid Sequence	GGVSQESSKV LNTNGTSGFL PGGYTCTPHS QPWQAALLVQ GRLLCGGVLVHPKWVLTAAH CLKEGLKVYL GKHALGRVEA GEQVREVVHS IPHPEYRRSP THLNHDHDIM LLELQSPVQLTG YIQTLPLS HNNRLTPGTT CRVSGWGTTT SPQVNYPKTL QCANIQLRSD EECRQVYPGKITDNMLCAGT KEGGKDSCEG DSGGPLVCNR TLYGIVSWG D FPCGQPDRPGVYTRVSRVYL WIRETIRKYE TQQQKWLKGP QHHHHHH.		
Formulation	KLK13 protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Kallikreins are a subgroup of serine proteases having various physiological functions. Many kallikreins are implicated in carcinogenesis and some have potential of becoming novel cancer and other disease biomarkers. Kallikrein-13 (KLK13) is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. KLK13 gene expression is regulated by steroid hormones and may be useful as a marker for breast cancer.

Biological Activity

Specific activity is > 8,000 pmol/min/ug. One unit will hydrolyze 1.0 pmole of BAEE to Na-Benzoyl-L-arginine per minute at pH 8.0 at 25°C.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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

KLK13 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 267 amino acids (17-277 a.a.) and having a molecular mass of 29.7 kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40 kDa). KLK13 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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