

32-6822: KLK13 Human, sf9

Application : Functional Assay

Alternative Name : Kallikrein-Related Peptidase 13, KLK14, Kallikrein-Like Protein 4, Kallikrein 13, KLK-L4, Kallikrein-Like Gene 4, Kallikrein-13, EC 3.4.21.-, EC 3.4.21, Kallikrein-13.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

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

Product Info

Amount : 1 µg / 5 µg

Purification : Greater than 90% as determined by SDS-PAGE.

Content : KLK13 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Storage condition : 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.

Amino Acid : GGVSQESSKV LNTNGTSGFL PGGYTCFPHS QPWQAALLVQ GRLLCGGVLV HPKWVLTAAH
CLKEGLKVYL GKHALGRVEA GEQVREVVHS IPHPEYRRSP THLNHDHDIM LLELQSPVQL TGYIQTLP
HNNRLTPGTT CRVSGWGTTT SPQVNYPKTL QCANIQLRSD EECRQVYPGK ITDNMLCAGT
KEGGKDSCEG DSGGPLVCNR TLYGIVSWG D FPCGQPDRPG VYTRVSRVYL WIRETIRKYE
TQQQKWLKGP QHHHHHH.

Application Note

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 pH8.0 at 25C.