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32-6822: KLK13 Human, sf9

Application : Functional Assay

Alternative Name : Kallikrein-Related Peptidase 13, KLKL4, 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 TGYIQTLPLS HNNRLTPGTT CRVSGWGTTT SPQVNYPKTL QCANIQLRSD EECRQVYPGK ITDNMLCAGT KEGGKDSCEG DSGGPLVCNR TLYGIVSWGD FPCGQPDRPG VYTRVSRYVL 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.