PRODUCT INFORMATION

Expression system Baculovirus

Domain 34-276aa

UniProt No. 043240

NCBI Accession No. NP_001070968

Alternative Names

PRSSL1, Protease serine-like 1, Normal epithelial cell-specific 1, NES1, KLK10, Kallikrein-10, Kallikrein related peptidase 10

PRODUCT SPECIFICATION

Molecular Weight

27.8 kDa (252aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 1mM DTT, 30% glycerol

Purity > 90% by SDS-PAGE

Endotoxin level < 1 EU per 1ug of protein (determined by LAL method)

Tag His-Tag

Application SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

KLK10, also known as kallikrein-10, is belong to the subgroup of serine proteases encompassing fifteen homologous members. This protein is widely expressed in normal human organs, for example breast, prostate, thyroid, testis, ovary, and gastrointestinal tract. Interestingly, it is highly expressed in the islets of Langerhans in



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human pancreas. Also, it is detectable in many biological fluids, including milk, seminal plasma, amniotic fluid, serum, and cerebrospinal fluid. In spite of its unknown physiological functions, the implications of KLK10 in various diseases have been explored. Early studies have shown that this expression is dramatically down-regulated in breast and testicular germ-cell tumors. It is secreted and may play a role in suppression of tumorigenesis in breast. Recombinant human KLK10, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

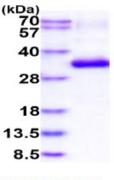
ADPALLPQND TRLDPEAYGS PCARGSQPWQ VSLFNGLSFH CAGVLVDQSW VLTAAHCGNK PLWARVGDDH LLLLQGEQLR RTTRSVVHPK YHQGSGPILP RRTDEHDLML LKLARPVVLG PRVRALQLPY RCAQPGDQCQ VAGWGTTAAR RVKYNKGLTC SSITILSPKE CEVFYPGVVT NNMICAGLDR GQDPCQSDSG GPLVCDETLQ GILSWGVYPC GSAQHPAVYT QICKYMSWIN KVIRSNHHHH HH

General References

Petraki CD., et al, (2002) J. Histochem. Cytochem. 50:1247-1261. Luo LY., et al. (2002) Br. J. Cancer. 86:1790-1796.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)