

Recombinant Full Length Human KLK3 Protein, C-Flag-tagged

Cat. No. KLK3-850HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human KLK3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. The gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. It encodes a single-chain glycoprotein, a protease which is synthesized in the epithelial cells of the prostate gland, and is present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. The serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	26.8 kDa
AA Sequence	MWVPVFLTLSTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVH PQWVLTAHCIRNK SVILLGRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLR

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PGDDSSHDLMLLRLEPAELTDAVKVMD LPTQEPALGTTTCYASGWGSIEPEEFLTP
 KKLQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGKSTCS
 GDSGGPLVCNGVLQGITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANPTRTRPL
 EQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease, Secreted Protein
Protein Pathways	Pathways in cancer, Prostate cancer
Full Length	Full L.

GENE INFORMATION

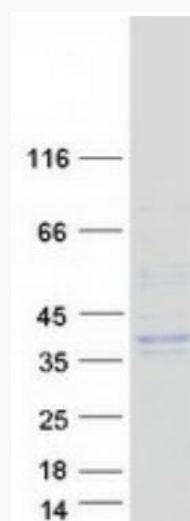
Gene Name	KLK3 kallikrein related peptidase 3 [Homo sapiens (human)]
Official Symbol	KLK3
Synonyms	APS; PSA; hK3; KLK2A1

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Gene ID	354
mRNA Refseq	NM_001648.2
Protein Refseq	NP_001639.1
MIM	176820
UniProt ID	P07288



Coomassie blue staining of purified KLK3 protein.