Human KLK13/Kallikrein 13 (His Tag) recombinant protein

Catalog Number	500305
Synonyms	Kallikrein-like protein 4
Species	Human
Expression System	Human Cells
Accession	Q9UKR3
Gene ID	26085
Molecular Weight	The recombinant human KLK13 consists of 256 amino acids and has a predicted molecular mass of 28.4 kDa. As a result of glycosylation, the apparent molecular mass of rh KLK13 is approximately 33-37 kDa in SDS-PAGE under reducing conditions.

Product Information

Sequence Region	Met 1 - Ile 262
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4 1. 5 % trehalose and mannitol are added as protectants before lyophilization. 2. Please contact us for any concerns or special requirements.
Purity	> 95 % as determined by SDS-PAGE
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Activity	Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC (R&D Systems, Catalog # ES011). The specific activity is >200 pmoles/min/μg.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Predicted N-terminal	Gly 18
Protein Construction	A DNA sequence encoding the pro-form of human KLK13 (NP_056411.1) (Met 1-Ile 262) was expressed with a C-terminal polyhistidine tag.

Storage & Handling

Reconstitution	Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

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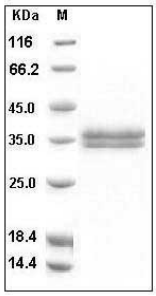
Human tissue kallikrein 13 (hK13), also known as KLK-L4 (kallikrein-like gene 4), is a member of the human tissue kallikrein family of serine proteases having diverse physiological functions in many tissues. The KLK13 gene resides on chromosome 19q13.3-4 along with other 14 members in a gene cluster and shares a high degree of homology. KLK13 is a trypsin-like, secreted serine protease expressed specifically in the testicular tissue including prostate, salivary gland, breast, and testis. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and may play a role in metastasis. KLK13 may be involved in the pathogenesis and/or progression of breast and ovary cancers, and is regarded as a novel cancer biomarker. In addition, KLK13 interacts and forms complexes with several serum protease inhibitors, such as alpha2-macroglobulin, and its expression is regulated by steroid hormones.

Validation

SDS-PAGE



Human KLK13 / Kallikrein-13 Protein (His Tag) SDS-PAGE