

Recombinant Human Kallikrein-11/KLK11 Protein

Catalog No.: RP00149

Sequence Information

Species **Gene ID**
Human 11012

Swiss Prot **Tags**
Q9UBX7 C-His

Synonyms
KLK11, PRSS20, TLSP

Product Information

Source **Purification**
HEK293 cells ≥ 90 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
28.14 kDa 40 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm filtered
solution of 20mM Tris, 150mM
NaCl, pH 8.0. Contact us for
customized product form or
formulation.

Reconstitution
Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1–0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

kallikrein-related peptidase 11 (KLK11), also known as hippostasin, trypsin-like serine protease and PRSS20, is a member of human tissue kallikrein family. It is a subgroup of serine proteases with diverse physiological functions, which is implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. The KLK11 gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Two alternatively spliced forms exist, resulting in 250 (isoform 1) and 282 (isoform 2) amino acid sequences, respectively. Isoform 1 is predominantly expressed in brain whereas isoform 2 is preferentially expressed in prostate. KLK11 is a novel marker for ovarian and prostate cancer carcinomas. Recombinant human KLK11, after being activated by thermolysin, is active against a thioester substrate. This activity can be inhibited by AEBSF, dichloroisocoumarin, and aprotinin.

Basic Information

Description

Recombinant Human Kallikrein-11/KLK11 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1–Asn250) of human KLK11/Kallikrein-11 (Accession #NP_006844.1) fused with a 6×His tag at the C-terminus.

Activity

Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of 5,5'-Dithio-bis (2-nitrobenzoic acid) (DTNB). The specific activity is >141.40 pmol/min/μg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

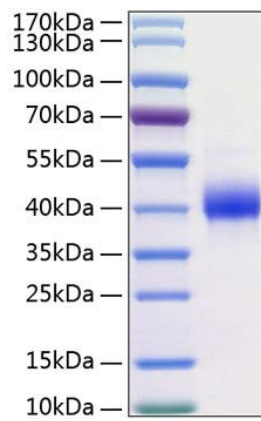
Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Validation Data



Recombinant Human Kallikrein-11/KLK11 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.