

Mouse KLK11 / Kallikrein-11 Protein (His Tag)



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: 50919-M08H

General Information

Gene Name Synonym:

PRSS20; TLSP; 2310015I08Rik; Prss20; TLSP

Protein Construction:

A DNA sequence encoding the mouse KLK11 isoform 2 (Q9QYN3) (Met 1-Asn 276), was fused with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu 45

Molecular Mass:

The secreted recombinant mouse KLK11 (pro form) comprises 243 amino acids and has a calculated molecular mass of 27.3 kDa. The apparent molecular mass of rmKLK11 is approximately 38-42 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

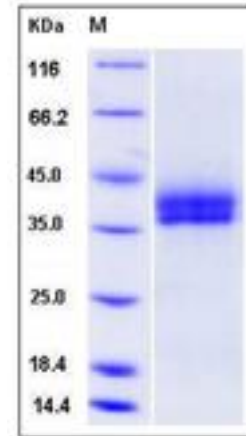
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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 with potential that serving as novel biomarkers for ovarian and prostate cancer and other diseases. 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. Isoform 2 is identical to isoform 1, except for an inserted 32 amino acid segment. Isoform 1 is predominantly expressed in brain whereas isoform 2 is preferentially expressed in prostate.

References

- 1.Yoshida S., *et al.*,(1998), cDNA cloning and expression of a novel serine protease, TLSP. *Biochim. Biophys. Acta* 1399:225-228.
- 2.Mitsui S., *et al.*, (2000), A novel isoform of a kallikrein-like protease, TLSP/hippostasin, (PRSS20), is expressed in the human brain and prostate.*Biochem. Biophys. Res. Commun.* 272:205-211.
- 3.Yousef G.M., *et al.*,(2000), Genomic organization, mapping, tissue expression, and hormonal regulation of trypsin-like serine protease (TLSP PRSS20), a new member of the human kallikrein gene family.*Genomics* 63:88-96.

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