

# Recombinant human TINAGL1 protein

Catalog Number: ATGP3583

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

22-467aa

### UniProt No.

Q9GZM7

### NCBI Accession No.

NP\_071447

### Alternative Names

Tubulointerstitial nephritis antigen-like isoform 1, TINAGL1, ARG1, LCN7, LIECG3, TINAGRP

## PRODUCT SPECIFICATION

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### Molecular Weight

51.2 kDa (455aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT

### 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

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### Description

TINAGL1, also known as tubulointerstitial nephritis antigen-like isoform 1, is a glycoprotein member of the peptidase C1 family of molecules. During pregnancy it binds to Laminin-1 and Integrins alpha 5 and beta 1 and plays a role in supporting fertility. In the vasculature, TINAGL1 localizes to basal laminae along adrenocortical sinusoidal capillaries where it binds to fibronectin and collagen and supports adrenocortical cell adhesion.

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Recombinant human TINAGL1 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

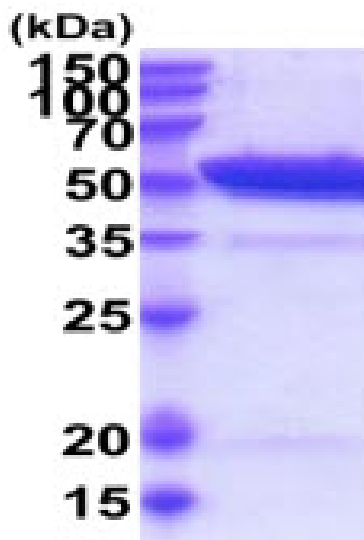
ADLAQQGRGR RELAPGLHLR GIRDAGGRYC QEQDLCCRGR ADDCALPYLG AICYCDLFCN RTVSDCCPDF WDFCLGVPPP  
FPPIQGCMMHG GRIYPVLGTY WDNCNRCTCQ ENRQWQCDQE PCLVDPDMIK AINQGNYGWQ AGNHSAFWGM  
TLDEGIRYRL GTIRPSSSVN NMHEIYTVLN PGEVLPTAFE ASEKWPNIH EPLDQGNCAG SWAFSTAAVA SDRVSIHSLG  
HMTPVLSPQN LLSCDTHQQQ GCRGGRLDGA WWFLRRRGVV SDHCYPFSGR ERDEAGPAPP CMMHSRAMGR  
GKRQATAHCP NSYVNNNDIY QVTPVYRLGS NDKEIMKELM ENGPVQALME VHEDFFLYKG GIYSHTPVSL GRPERYRRHG  
THSVKITGWG EETLPDGRTL KYWTAANSWG PAWGERGHFR IVRGVNECDI ESFVLGVWGR VGMEDMGHHH HHHHH

## General References

Wex T. et al., (2001) Biochemistry. 40: 1350-1357.  
Takahashi A. et al., (2016) J Reprod Dev. 62: 43-49.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)