

Active Recombinant Human TINAGL1 protein, His-tagged

Cat. No. TINAGL1-238H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TINAGL1(Ala22-Met464) fused with His tag at C-terminal was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	22-464 a.a.
Description	TINAGL1 (Tubulointerstitial nephritis antigen-like 1; also TIN-ag-RP, AZ-1 and Lipocalin 7) is a 54-57 kDa glycoprotein member of the peptidase C1 family of molecules. Mature human TINAGL1 contains an SMB (somatomedin B) domain, one vWFC domain, and a nonenzymatic peptidase C1A region. Mature human TINAGL1 shares 90% amino acid (aa) identity with mouse TINAGL1. Alternative splicing generates additional isoforms that either lack a portion of the vWFC domain or consist of a portion of the peptidase domain with a 38 aa insertion and flanked by substitutions. TINAGL1 is secreted by renal tubule epithelium, zona glomerulosa cells, vascular smooth muscle, and striated muscle cells. It is also expressed in mouse decidual endometrium and blastocysts. 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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Predicted N Terminal	Ala22
Form	Supplied as a 0.2 µm filtered solution in Tris, NaCl and Brij-35.
Bio-activity	Measured by its binding ability in a functional ELISA. When Cultrex Mouse Laminin I is coated at 5 µg/mL, Recombinant Human TINAGL1 binds with an ED50 = 1-6 ng/mL.
Molecular Mass	Predicted Molecular Mass: 52 kDa SDS-PAGE: 47-61 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name	TINAGL1 tubulointerstitial nephritis antigen-like 1 [Homo sapiens]
Official Symbol	TINAGL1
Synonyms	TINAGL1; tubulointerstitial nephritis antigen-like 1; LCN7, lipocalin 7 , TINAG like 1; tubulointerstitial nephritis antigen-like; ARG1; LIECG3; P3ECSL; TINAGRP; OLRG-2; TIN-Ag-RP; lipocalin 7; TINAG-like 1; TIN Ag-related protein; androgen-regulated gene 1; oxidized-LDL responsive gene 2; glucocorticoid-inducible protein 5; tubulointerstitial nephritis antigen-related protein; LCN7;

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Gene ID	64129
mRNA Refseq	NM_001204414
Protein Refseq	NP_001191343
UniProt ID	Q9GZM7

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