

Recombinant Human TMIGD1 Protein (Met1-Pro220), MIgG1 Fc-tagged

Cat. No. TMIGD1-599H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TMIGD1 Protein (NP_996663.1) (Met1-Pro220) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of mouse IgG1 at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Pro220
Description	The transmembrane and immunoglobulin domain-containing 1 (TMIGD1) is a novel tumor suppressor that is highly expressed in normal renal tubular epithelial cells, but it is downregulated in human renal cancer. TMIGD1 as a novel candidate tumor suppressor gene and provides important insight into pathobiology of RCC that could lead to a better diagnosis and possible novel therapy for RCC. TMIGD1 controls cell migration, cell morphology, and protects renal epithelial cells from oxidative- and nutrient-deprivation-induced cell injury. TMIGD1 as a novel cell adhesion molecule expressed in kidney epithelial cells that protects kidney epithelial cells from oxidative cell injury to promote cell survival.
Predicted N Terminal	Val 30
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

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Molecular Mass	The recombinant human TMIGD1 consists of 425 amino acids and predicts a molecular mass of 47.5 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
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.

GENE INFORMATION

Gene Name	TMIGD1 transmembrane and immunoglobulin domain containing 1 [Homo sapiens]
Official Symbol	TMIGD1
Synonyms	TMIGD1; TMIGD; UNQ9372; AWKS9372;
Gene ID	388364

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mRNA Refseq	NM_206832
Protein Refseq	NP_996663
UniProt ID	Q6UXZ0

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