

Recombinant Mouse VTCN1 Protein (Phe29-Ser256), His-tagged

Cat. No. VTCN1-788M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse VTCN1 Protein (NP_848709.2) (Phe29-Ser256) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.

Species Mouse

Source HEK293

ProteinLength Phe29-Ser256

Description V-set domain-containing T-cell activation inhibitor 1, also known as B7X, B7H4, B7S1, and VTCN1, is a single-pass type? membrane protein belonging to the B7 family of costimulatory proteins. These proteins are expressed on the surface of antigen-presenting cells and interact with ligands on T lymphocytes. They provide costimulatory signals that regulate T cell responses. A soluble form of B7H4 has also been detected. B7X / VTCN1 / B7H4 negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages, B7X / VTCN1 / B7H4 plays an important role, together with regulatory T-cells(Treg), in the suppression of tumor-associated antigen-specific T-cell immunity. B7X / VTCN1 / B7H4 is also involved in promoting epithelial cell transformation. This membrane protein can be up-regulated by IL6 / interleukin-6 and IL1 / interleukin-1 and inhibited by CSF2 / GM-CSF and IL4 / interleukin-4 on antigen-presenting cells.

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| Predicted N Terminal | Phe 29 |
| Form | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. |
| Molecular Mass | The recombinant mouse VTCN1 consists of 239 amino acids and predicts a molecular mass of 26.6 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

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| Gene Name | Vtcn1 V-set domain containing T cell activation inhibitor 1 [<i>Mus musculus</i>] |
| Official Symbol | VTCN1 |

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| Synonyms | VTCN1; B7x; B7h4; B7s1; BC032925; MGC41287; |
| Gene ID | 242122 |
| mRNA Refseq | NM_178594 |
| Protein Refseq | NP_848709 |
| MIM | 608162 |
| UniProt ID | Q7TSP5 |

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