

Human CellExp™ VTCN1, human recombinant

CATALOG #: 7412-10 10 µg
7412-50 50 µg

ALTERNATE NAMES: B7-H4, VTCN1, B7S1, B7h.5

SOURCE: HEK 293 cells (Phe 29 – Ala 258)

PURITY: ≥ 90% by SDS-PAGE gel

MOL. WEIGHT: This protein is fused with polyhistidine tag at the C-terminus, has a calculated MW of 26.1 kDa. The predicted N-terminus is Phe 29. DTT-reduced Protein migrates as 45-60 kDa due to glycosylation.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

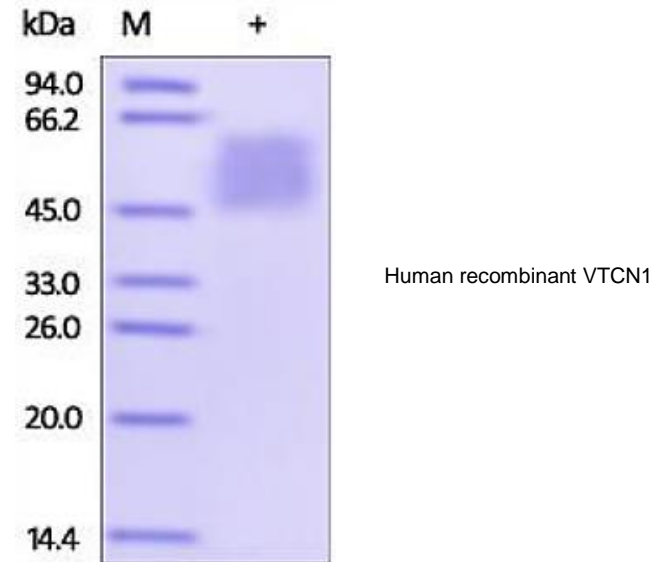
FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: V-set domain-containing T-cell activation inhibitor 1 (VTCN1) is also known as Immune costimulatory protein B7-H4, Protein B7S1, T-cell costimulatory molecule B7x, B7H4, which belongs to the immunoglobulin superfamily and BTN/MOG family. VTCN1 contains two Ig-like V-type (immunoglobulin-like) domains. The expression of VTCN1 is up-regulated by IL6 and IL10 and is inhibited by GM-CSF and IL4 on antigen-presenting cells (APCs). VTCN1 / B7-H4 negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. VTCN1 involved in promoting epithelial cell transformation.

BIOLOGICAL ACTIVITY: Measured by its ability to inhibit anti-CD3 antibody induced IL-2 secretion in human T lymphocytes. The ED₅₀ for this effect is typically 0.75 - 3 µg/ml.



RELATED PRODUCTS:

- IL-10, Human CellExp™, human recombinant (Cat # 6466-10, -50)
- IL-10, human recombinant (Cat # 4155-10, -50, -1000)
- IL-10, murine recombinant (Cat # 4156-10, -50, -1000)
- IL-10, rat recombinant (Cat # 4157-10, -1000)

FOR RESEARCH USE ONLY! Not to be used in humans.