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# Recombinant Human B7-H4/VTCN1 Protein (Fc Tag)

Catalog Number: PKSH033755

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## Description

Species Human

Source HEK293 Cells-derived Human B7-H4; VTCN1 protein Phe29-Ala258, with an C-terminal

Fc

Calculated MW52.5 kDaObserved MW70-95 kDaAccessionQ7Z7D3

**Bio-activity** Not validated for activity

### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

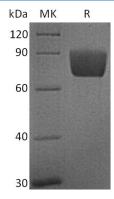
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### **Background**

B7 Homolog 4 (B7-H4) is glycosylated member of the B7 family of immune costimulatory proteins. Mature human B7-H4 consists of a 235 amino acid (aa) extracellular domain (ECD) with two Ig-like V-type domains; a 21 aa transmembrane segment; and a 2 aa cytoplasmic tail. It is widely expressed; including in kidney; liver; lung; pancreas; placenta; prostat e; spleen; testis and thymus. B7-H4 negatively regulates T-cell-mediated immune response by inhibiting T-cell activatio n; proliferation; cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages; plays an important role; together with regulatory T-cells (Treg); in the suppression of tumor-associated antigen-specific T-cell immunity. It also involved in promoting epithelial cell transformation.

### For Research Use Only

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