



# Recombinant Protein Technical Manual

## Recombinant Mouse B7-H4/VTCN1 Protein (aa 25-256, Fc Tag)

RPES4869

### Product Data:

**Product SKU:** RPES4869

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q7TSP5

### Protein Information:

**Molecular Mass:** 52.7 kDa

**AP Molecular Mass:** 90 kDa

**Tag:** C-Fc

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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, pH7.4.

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

**Application:**

**Synonyms:** V-set domain containing T-cell activation inhibitor 1;B7 homolog 4;Protein B7S1;B7-H4;VTCN1;B7h4;B7s1;B7x;BC032925

## Immunogen Information:

**Sequence:** Leu25-Ser256

## Background:

Mouse V-set domain-containing T-cell activation inhibitor 1/VTCN1/B7-H4 is glycosylated member of the B7 family of immune co-stimulatory proteins. B7-H4 consists of extracellular domain (ECD) with one Ig-like V-set domain and one Ig-like C2-set domain. It is widely expressed, including in kidney, liver, lung, pancreas, placenta, prostate, spleen, testis and thymus. B7-H4 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, 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.