

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

Catalog Number:PKSH033756



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

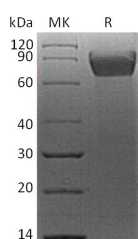
## Description

|                                    |   |
|------------------------------------|---|
| <b>Synonyms</b>                    | B7S1;B7x;Vtcn1;B7h.5;B7-H4;B7H4T-cell costimulatory molecule<br>B7x;B7S1VCTN1;B7XPRO1291;FLJ22418;Immune costimulatory protein<br>B7-H4;Protein B7S1;T cell costimulatory molecule B7x;V-set domain containing T<br>cell activation inhibitor 1;V-set domain-containing T-cell activation inhibitor 1 |
| <b>Species</b>                     | Human   |
| <b>Expression Host</b>             | HEK293 Cells  |
| <b>Sequence</b>                    | Phe29-Ala258  |
| <b>Accession</b>                   | Q7Z7D3  |
| <b>Calculated Molecular Weight</b> | 51.9 kDa  |
| <b>Observed molecular weight</b>   | 66-105 kDa  |
| <b>Tag</b>                         | C-mFc   |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | 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.             |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | 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; 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

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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.

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