

B7-H4 Protein, Human, Recombinant (hFc & Avi), Biotinylated

General Information

Synonyms:	B7H4T-cell costimulatory molecule B7x;FLJ22418;B7XPRO1291;B7x;V-set domain;B7-H4;B7S1;B7h.5;Immune costimulatory protein B7-H4;Vtcn1;B7S1VCTN1;V-set domain containing T cell activation inhibitor 1;T cell costimulatory molecule B7x;Protein B7S1
Protein Construction:	Phe29-Ala258
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q7Z7D3
Molecular Weight:	70-95 KDa (reducing condition)
AA Sequence:	Phe29-Ala258

QC Testing

Biological Activity:	Immobilized Anti-Human B7-H4 mAb at 2µg/ml (100 µl/well) can bind Biotinylated Human B7-H4-Fc-Avi. The ED50 of Biotinylated Human B7-H4-Fc-Avi is 0.23 ng/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/µg (1 EU/µg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:
Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:
Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:
In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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

A DRUG SCREENING EXPERT

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481