

## HUMAN B7-H4 PROTEIN, HFC TAG

**Cat.#:** 11177

**Product Name:** Human B7-H4 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** B7-H4;B7h.5;B7H4;B7S1;B7X;PRO1291;VCTN1

**Target:** B7-H4

**UNIPROT ID:** Q7Z7D3

**Description:** Recombinant Human B7-H4 protein with C-terminal human Fc

**Background:** This gene encodes a protein belonging to the B7 costimulatory protein family. Proteins in this family are present on the surface of antigen-presenting cells and interact with ligand bound to receptors on the surface of T cells. Studies have shown that high levels of the encoded protein has been correlated with tumor progression. A pseudogene of this gene is located on chromosome 20. Multiple transcript variants encoding different isoforms have been found for this gene.

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 51.4 kDa after removal of the signal peptide. The apparent molecular mass of B7-H4-hFc is approximately 100-130 kDa due to glycosylation.

**Molecular Characterization:** B7-H4 (Phe29-Ala258) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



Figure 1. Human B7-H4 Protein, hFc Tag on SDS-PAGE under reducing condition.

**Human B7-H4, hFc tagged protein ELISA**  
0.1  $\mu$ g of Human B7-H4, hFc tagged protein per well

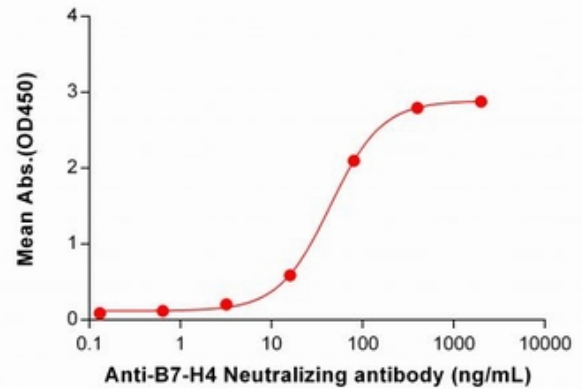


Figure 2. ELISA plate pre-coated by 1  $\mu$ g/ml (100  $\mu$ l/well) Human B7-H4, hFc-His tagged protein (11177) can bind Anti-B7-H4 Neutralizing antibody 28081 in a linear range of 3.2-80 ng/ml.