

## B7-H4 Protein, Mouse (sf9, His)

Cat. No.:	HY-P74393
Synonyms:	V-set domain containing T-cell activation inhibitor 1; VTCN1; Protein B7S1; B7-H4
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q7TSP5 (F29-S256)
Gene ID:	242122
Molecular Weight:	Approximately 26.6 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 300 mM NaCl, pH 7.5, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	B7-H4 protein serves as a negative regulator of the T-cell-mediated immune response by suppressing T-cell activation, proliferation, cytokine production, and the development of cytotoxicity. Its significance is particularly pronounced when expressed on the cell surface of tumor macrophages, where it collaborates with regulatory T-cells (Treg) to play a crucial role in suppressing tumor-associated antigen-specific T-cell immunity. Beyond its immunomodulatory functions, B7-H4 is also implicated in promoting epithelial cell transformation, highlighting its involvement in diverse cellular processes associated with immune regulation and tumorigenesis.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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