

B7-H4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74394
Synonyms:	V-set domain containing T-cell activation inhibitor 1; VTCN1; Protein B7S1; B7-H4
Species:	Mouse
Source:	HEK293
Accession:	Q7TSP5 (F29-S256)
Gene ID:	242122
Molecular Weight:	Approximately 26.6 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

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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