

B7-H4 Protein, Rat (HEK293, His)

Cat. No.:	HY-P75485
Synonyms:	V-set domain containing T-cell activation inhibitor 1; VTCN1; Protein B7S1; B7-H4
Species:	Rat
Source:	HEK293
Accession:	Q501W4 (F29-S256)
Gene ID:	295322
Molecular Weight:	Approximately 26.6 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. 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 ₂ 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 functions as a negative regulator of T-cell-mediated immune responses by effectively suppressing T-cell activation, proliferation, cytokine production, and the development of cytotoxicity. Particularly noteworthy is its role when expressed on the cell surface of tumor macrophages, where it collaborates with regulatory T-cells (Treg) to suppress tumor-associated antigen-specific T-cell immunity. This dual action underscores its significance in creating an immunosuppressive microenvironment. Furthermore, B7-H4 is implicated in promoting epithelial cell transformation, suggesting its involvement in processes associated with altered cellular states and potential implications in the context of pathological conditions.
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Caution: Product has not been fully validated for medical applications. For research use only.

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