

## B7-H4 Protein, Human (Biotinylated, HEK293, Fc-Avi)

<b>Cat. No.:</b>	HY-P72341
<b>Synonyms:</b>	B7S1; B7x; Vtcn1; B7h.5; B7S1VCTN1; B7XPRO1291; FLJ22418; Protein B7S1; T cell costimulatory molecule B7x; V-set domain containing T cell activation inhibitor 1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q7Z7D3 (F29-A258)
<b>Gene ID:</b>	79679
<b>Molecular Weight:</b>	70-95 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> FGISGRHSIT   VTTVASAGNI   GEDGILSCTF   EPDIKLSDIV IQWLKEGVLG   LVHEFKEGKD   ELSEQDEMFR   GRTAVFADQV IVGNASLRLK   NVQLTDAGTY   KCYIITSKGK   GNANLEYKTG AFSMPEVNVD   YNASSETLRC   EAPRWFPQPT   VVWASQVDQG ANFSEVSNTS   FELNSENVTM   KVVSVLYNVT   INNYS CMIE NDIAKATGDI   KVTSESEIKRR   SHLQLLSNK           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	B7-H4 protein functions as a negative regulator of the T-cell-mediated immune response, exerting inhibitory effects on T-cell activation, proliferation, cytokine production, and the development of cytotoxicity. Particularly significant when expressed on the cell surface of tumor macrophages, B7-H4, in collaboration with regulatory T-cells (Treg), plays a crucial role in suppressing tumor-associated antigen-specific T-cell immunity. Additionally, B7-H4 is implicated in the promotion of epithelial cell transformation, indicating its multifaceted involvement in modulating immune responses and cellular processes associated with tumor development.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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