

## Active Recombinant Human VTCN1 Protein, His-tagged, Biotinylated

Cat. No. VTCN1-429H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Biotinylated Human B7-H4 is expressed from HEK293 cells. It contains AA Phe 29 - Ala 258 (Accession # NP_078902). This protein carries a polyhistidine tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	29-258 a.a.
<b>Predicted N Terminal</b>	Phe 29
<b>Form</b>	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
<b>Bio-activity</b>	Immobilized anti-B7-H4 mAb (Human IgG1) at 2 ug/mL can bind Biotinylated Human B7-H4 with a linear range of 4-62 ug/mL.
<b>Molecular Mass</b>	The protein has a calculated MW of 26.1 kDa. The protein migrates as 43-60 kDa under reducing condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.

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<b>Characteristic</b>	The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product. The biotin to protein ratio is 0.7-1 as determined by the HABA assay.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Conjugation</b>	Biotin
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	VTCN1 V-set domain containing T cell activation inhibitor 1 [ Homo sapiens ]
<b>Official Symbol</b>	VTCN1
<b>Synonyms</b>	VTCN1; V-set domain containing T cell activation inhibitor 1; V-set domain-containing T-cell activation inhibitor 1; B7 family member; H4; B7 superfamily member 1; B7 H4; B7H4; B7S1; B7X; FLJ22418; B7 family member, H4; T cell costimulatory molecule B7x; T-cell costimulatory molecule B7x; immune costimulatory protein B7-H4; B7-H4; B7h.5; VCTN1; PRO1291; RP11-229A19.4;
<b>Gene ID</b>	79679

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<b>mRNA Refseq</b>	NM_001253849
<b>Protein Refseq</b>	NP_001240778
<b>MIM</b>	608162
<b>UniProt ID</b>	Q7Z7D3

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