Active Recombinant Human VTCN1 Protein, His-tagged, Biotinylated

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293
ProteinLength	29-258 a.a.
Predicted N Terminal	Phe 29
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Bio-activity	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.
Molecular Mass	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.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	>95% as determined by SDS-PAGE.

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Characteristic	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.
Stability	Samples are stable for up to twelve months from date of receipt at -70ºC.
Storage	For long term storage, the product should be stored at lyophilized state at -20ºC or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8ºC for 12 months in lyophilized state; -70ºC for 3 months under sterile conditions after reconstitution.
Reconstitution	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℃ before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	VTCN1 V-set domain containing T cell activation inhibitor 1 [Homo sapiens]
Official Symbol	VTCN1
Synonyms	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;
Gene ID	79679

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mRNA Refseq	NM_001253849
Protein Refseq	NP_001240778
MIM	608162
UniProt ID	Q7Z7D3

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