

Active Recombinant Human VSTM2B protein, Fc-Avi-tagged, Biotinylated

Cat. No. VSTM2B-051H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human VSTM2B(Ala29-Thr263) protein, fused to Fc-Avi-tag tag at the C-terminus, was expressed in CHO cells .
Species	Human
Source	CHO
ProteinLength	Ala29-Thr263
Description	V-set and transmembrane domain-containing protein 2B (VSTM2B) is a type I transmembrane protein belonging to the immunoglobulin (Ig) superfamily. There have been 8 VSTM family members identified and several have been shown to exhibit immunosuppressive activity (1). Human VSTM2B consists of an extracellular domain (ECD) with an Ig-like V-type domain, a transmembrane domain, and single amino acid (aa) in the cytoplasm. The mature ECD of human VSTM2B shares 86% and 85% aa sequence identity with mouse and rat VSTM2B, respectively. Currently, both the expression pattern and biological functions of VSTM2B remain unknown. Our in-house data show that VSTM2B inhibits the human T cell activation, including anti-CD3 induced IL-2, IFN-gamma secretion, and T cell proliferation. Our Avi-tag Biotinylated Recombinant VSTM2B features biotinylation at a single site contained within the Avi-tag, a unique 15 amino acid peptide. Protein orientation will be uniform when bound to streptavidin-coated surface due to the precise control of biotinylation and the rest of the protein is unchanged so there is no interference in the protein's

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	bioactivity.
Predicted N Terminal	Ala29
Form	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Bio-activity	Measured by its binding ability in a functional ELISA.
Molecular Mass	60-72 kDa, under reducing conditions
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Applications	Bioactivity
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 500 µg/mL in PBS.
Conjugation	Biotin
GENE INFORMATION	
Gene Name	V-set and transmembrane domain containing 2B[Homo sapiens]
Official Symbol	VSTM2B

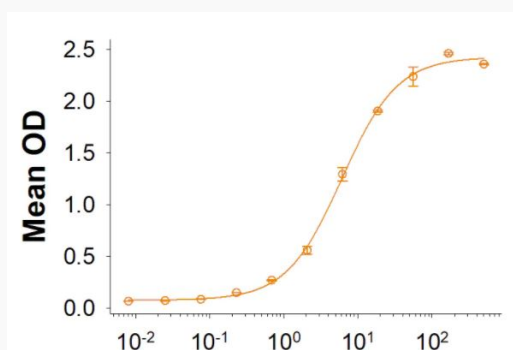
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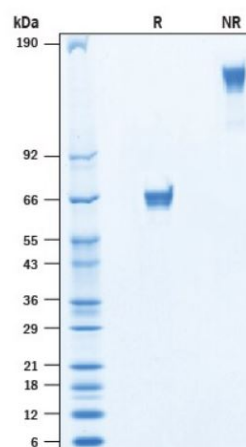
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Gene ID	342865
mRNA Refseq	NM_001146339.1
Protein Refseq	NP_001139811.1
UniProt ID	A6NLU5

Binding Activity



SDS-PAGE



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2 µg/lane Protein was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® Blue staining.

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