

Recombinant Human VSTM2B Fc Chimera

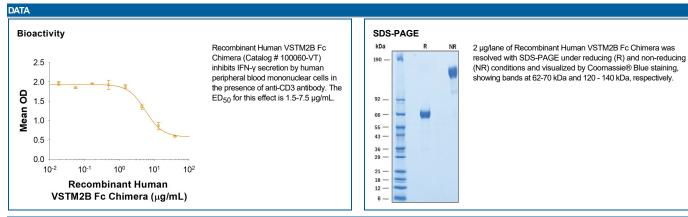
Catalog Number: 10060-VT

Source	Human embryonic kidney cell, HEK293-derived human VSTM2B protein			
	Human VSTM2B (Ala29-Thr263) Accession # A6NLU5	IEGRMD	Human IgG ₁ (Pro100-Lys330)	
	N-terminus		C-terminus	

N-terminal Sequence Analysis	Ala29
Structure / Form	Disulfide-linked homodimer
Predicted Molecular Mass	51 kDa

SPECIFICATIONS		
SDS-PAGE	62-70 kDa, reducing conditions	
Activity	Measured by its ability to inhibit anti-CD3 antibody induced IFN-gamma secretion by human peripheral blood mononuclear cells (PBMC). The ED ₅₀ for this effect is 1.5-7.5 μg/mL.	
Endotoxin Level	<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.	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS. See Certificate of Analysis for details.	

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 500 μg/mL in PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & 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 °C under sterile conditions after reconstitution.	



BACKGROUND

VSTM2B, or V-set and transmembrane domain-containing protein 2B is a membrane protein which includes a 235 amino acid (aa) extracellular domain that contains an Ig-like V-type domain, a 21 aa transmembrane domain, and one aa in cytoplasm. This extracellular domain shares 45% aa identity human VSTM2A. The mature extracellular domain of human VSTM2B shares 86% and 85% aa sequence identity for the mouse and rat homolog, 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-γ secretion, and T cell proliferation.

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