Data Sheet (Cat.No.TMPY-02555)

TargetMol

VSTM1 Protein, Human, Recombinant (His)

General Information

Synonyms:	SIRL-1;UNQ3033;MGC119161;V-set and transmembrane domain containing 1;VSTM1;SIRL1;MGC119160
Protein Construction:	A DNA sequence encoding the human VSTM1 (Q6UX27-1) extracellular domain (Met 1-Thr 135) was fused with a polyhistidine tag at the C-terminus. Predicted N terminal: Tyr 17
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q6UX27-1
Molecular Weight:	15 kDa (predicted); 25-35 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

V-set and transmembrane domain containing 1 (VSTM1) is a protein containing the V-set domains. V-set domains are immunoglobulin-like domains resembling the antibody variable region. V-set domains are found in many kinds of protein families, including immunoglobulin light and heavy chains, several T-cells such as CD2, CD4, CD80, and CD86, myelin membrane adhesion molecules, junction adhesion molecules (JAM), tyrosine-protein

kinase receptors, and the programmed cell death protein1.

Reference

Satow Y,et al.(1986) Phosphocholine binding immunoglobulin Fab McPC603. An X-ray diffraction study at 2.7 A. J Mol Biol. 190 (4): 593-604.
Rees DC,et al.(2009) ABC transporters: the power to change. Cell Biol. 10 (3): 218-227.