Data Sheet (Cat.No.TMPY-05371)

TargetMol

VSIG2 Protein, Human, Recombinant (His), Biotinylated

General Information

Synonyms:	CTH;V-set and immunoglobulin domain containing 2;2210413P10Rik;CTXL
Protein Construction:	A DNA sequence encoding the human VSIG2 isoform 1 (Q96IQ7-1) extracellular domain (Met1-Ala243) was fused with a polyhistidine tag at the C-terminus. The purified protein was biotinylated in vitro. Predicted N terminal: Val 24
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q96IQ7-1
Molecular Weight:	24.6 kDa (predicted)

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:	> 95 % 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 immunoglobulin domain-containing protein 2, also known as cortical thymocyte-like protein, CT-like protein and VSIG2, is a single-pass type I membrane protein that contains one Ig-like C2-type (immunoglobulin-like) domain and one Ig-like V-type (immunoglobulin-like) domain. VSIG2 is highly expressed in stomach, colon, prostate, trachea and thyroid glands and weakly in bladder and lung. V-set domains are Ig-like domains

resembling the antibody variable domain. V-set domains are found in diverse protein families, including immunoglobulin light and heavy chains; in several T-cell receptors such as CD2 (Cluster of Differentiation 2), CD4, CD8, and CD86; in myelin membrane adhesion molecules; in junction adhesion molecules (JAM); in tyrosine-protein kinase receptors; and in the programmed cell death protein 1 (PD1).

Reference

Satow Y, et al.,1986, J. Mol. Biol. 190(4): 593-604.
Kariuki,S.N. et al., 2010, Arthritis Res Ther. 12 (4):R151.

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