

Recombinant Mouse VSIG4 Protein

Catalog No.: RP02949

Sequence Information

Species **Gene ID**
Mouse 278180

Swiss Prot **Tags**
F6TUL9 C-His

Synonyms
VSIG4, CRlg, Z391G

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
19.7 kDa 28–35 kDa

Endotoxin
< 1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution
Centrifuge the tube before
opening. Reconstitute to a
concentration of 0.1–0.5 mg/mL in
sterile distilled water. Avoid vortex
or vigorously pipetting the protein.
For long term storage, it is
recommended to add a carrier
protein or stabilizer (e.g. 0.1% BSA,
5% HSA, 10% FBS or 5%
Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

V-set and immunoglobulin domain containing 4 (VSIG4) is a type I transmembrane glycoprotein that is a B7 family-related protein and an Ig superfamily member. Mouse VSIG4 is synthesized as a 280 amino acid (aa) precursor that contains a signal sequence, an IgV-type immunological domain (aa 36–115), one potential N-linked glycosylation site, and a single transmembrane domain. The IgV domain of mouse VSIG4 shares 86% and 80% aa sequence identity with the IgV domains of rat and human VSIG4, respectively. VSIG4 functions as a negative regulator of mouse as well as human T cell activation, and may be involved in the maintenance of peripheral T cell tolerance and/or unresponsiveness. VSIG4 acts as a macrophage complement receptor by binding complement fragments C3b and iC3b. VSIG4 binding to C3b inhibits complement activation through the alternative pathway, making it a potent suppressor of established inflammation.

Basic Information

Description

Recombinant Mouse VSIG4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (His20–Pro187) of mouse VSIG4 (Accession #NP_808457.1) fused with 6×His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

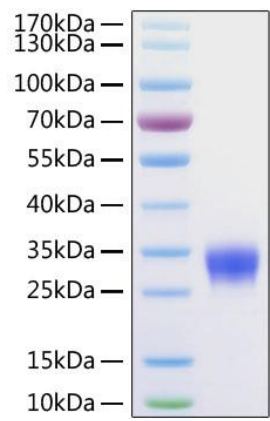
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Validation Data



Recombinant Mouse VSIG4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.