

Recombinant Mouse VSIG4 Protein

Catalog No.: RP02949 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	278180	F6TUL9

Tags

C-His

Synonyms

VSIG4;CR1g;Z39IG

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
19.7 kDa	28-35 kDa

Endotoxin

<1EU/μg

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.

Contact

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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.

Bio-Activity

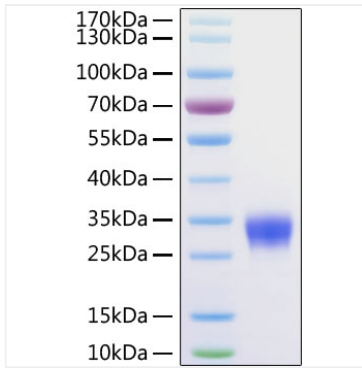
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse VSIG4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 28-35 kDa.