

Recombinant Human VSIG4 Protein (Met1-Pro283), HlgG1 Fc-tagged, Biotinylated

Cat. No. VSIG4-1161H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VSIG4 Protein (NP_009199.1) (Met1-Pro283) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of human IgG1 at the C-terminus. The purified protein was biotinylated in vitro.
Species	Human
Source	HEK293
ProteinLength	Met1-Pro283
Description	VSIG4 (V-set and immunoglobulin domain containing 4), also known as complement receptor of the immunoglobulin superfamily (CRIg) and Z39Ig, is a type I transmembrane glycoprotein. It is a B7 family-related protein and an Ig superfamily member. In contrast to the B7 family members which contain two IgG domains, VSIG4 contains one complete V-type Ig domain and a truncated C-type Ig domain. VSIG4 is exclusively expressed on tissue resident macrophages and binds to multimers of C3b and iC3b that are covalently attached to particle surfaces. No VSIG4 expression appears to be present in T and B cells. VSIG4 functions as a negative regulator of T cell activation, and may be involved in the maintenance of peripheral T cell tolerance, and is also identified as a potent suppressor of established inflammation. Mouse VSIG4 is synthesized as a 28 amino acid precursor that contains a signal sequence, an V-type Ig domain (aa 36-115), one potential N-linked glycosylation site, and a single transmembrane domain. The V-type Ig domain

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	of mouse VSIG4 shares 86% and 8% aa sequence identity with the V-type Ig domains of rat and human VSIG4, respectively.
Predicted N Terminal	Arg 20
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human VSIG4 consists of 505 amino acids and predicts a molecular mass of 56.2 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
Conjugation	Biotin

GENE INFORMATION

Gene Name	VSIG4 V-set and immunoglobulin domain containing 4 [Homo sapiens]
Official Symbol	VSIG4
Synonyms	VSIG4; Z39IG; protein Z39Ig; CRlg;
Gene ID	11326
mRNA Refseq	NM_001100431
Protein Refseq	NP_001093901
MIM	300353
UniProt ID	Q9Y279

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