

32-7500: Recombinant Human V-Set and Ig Domain-Containing Protein 4/VSIG4/CRlg (C-6His)

Gene : VSIG4
Gene ID : 11326
Uniprot ID : Q9Y279

Description

Source: Human Cells.
MW :30.2kD.

Recombinant Human VSIG4 is produced by our Mammalian expression system and the target gene encoding Arg20-Pro283 is expressed with a 6His tag at the C-terminus. V-Set and Immunoglobulin Domain-Containing Protein 4 (VSIG4) is a 45-50 kDa macrophage-specific transmembrane glycoprotein that belongs to the 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 I g domain. VSIG4 is abundantly expressed in several fetal tissues. In adult tissues, the highest expression of VSIG4 is in lung and placenta. It is also expressed in resting macrophages. No VSIG4 expression appears to be present in T and B cells. The specific expression of VSIG4 on resting macrophages in tissue suggests that this inhibitory ligand may be important for the maintenance of T cell unresponsiveness in healthy tissues. 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. VSIG4 is a phagocytic receptor, strong negative regulator of T-cell proliferation and IL2 production. It is a potent inhibitor of the alternative complement pathway convertases. Human VSIG4 is 399 amino acids (aa) in length. It is a type I transmembrane (TM) glycoprotein that contains a 264 aa extracellular domain (ECD) (aa 20 - 283) and a 95 aa cytoplasmic region.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : RPILEVPESVTGPWKGDVNLPCYDPLQGYTQVLVKWLVRGSDPVTIFLRDSSGDHIQQAQYQGRHLHVSHKV
PGDVSLLQSLTEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPTVTTGSGYGFTVPQGMRLSLQC
QARGSPPISYIWKQQTNNQEPIKVATLSTLLFKPAVIADSGSYFCTAKGQVGSEQHSDIVKFVVKDSSKLLKTKT
EAPTTMTYPLKATSTVKQSWDWTDDMGYLGETSAGPGKSLPVDHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 Åµg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.