

## Recombinant Human VSIG4 Protein (His Tag)

**Catalog Number:** PKSH033340

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

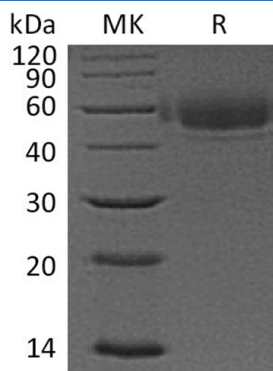
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human VSIG4 protein Arg20-Pro283, with an C-terminal His
<b>Calculated MW</b>	30.2 kDa
<b>Observed MW</b>	37-68 kDa
<b>Accession</b>	Q9Y279
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Reconstitution</b>	Please refer to the specific buffer information in the printed manual. Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

### For Research Use Only

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 Ig 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.