

Active Recombinant Human IGSF11 protein, Fc-tagged

Cat. No. IGSF11-237H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human IGSF11(Leu23-Gly245) fused with Fc region of Human IgG1 at C-terminal was expressed in NS0.

Species Human

Source Mammalian Cells

ProteinLength 23-245 a.a.

Description

VSIG3, also known as IGSF11, BT-IgSF, and CLMP, is an approximately 50 kDa transmembrane adhesion protein. Mature human VSIG3 consists of a 219 amino acid (aa) extracellular domain (ECD) that contains two tandem Ig-like domains, a 21 aa transmembrane segment, and a 169 aa cytoplasmic domain. Within the ECD, human VSIG3 shares 95% aa sequence identity with mouse and rat VSIG3. Alternative splicing generates additional isoforms with a substituted signal peptide that may also have a deletion in the second Ig-like domain. VSIG3 is expressed on epithelial and endothelial cells, neurons and glial cells, and platelets. It localizes to epithelial tight junctions and mediates homophilic in trans cell adhesion. VSIG3 also localizes to neuronal postsynaptic densities where it recruits the GluA1 and GluA2 subunits of AMPA receptors and supports excitatory synaptic transmission. The short isoform can be up-regulated in gastric cancer. In zebrafish, VSIG3 is expressed in melanophores and their precursors and plays a role in the development and patterning of pigment cells.

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Predicted N Terminal	Leu23
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured by its ability to inhibit anti-CD3 antibody induced IL-17 secretion by human peripheral blood mononuclear cells (PBMC). The ED50 for this effect is 1-6 µg/mL.
Molecular Mass	Predicted Molecular Mass: 50 kDa SDS-PAGE: 56-69 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 200 µg/mL in PBS.

GENE INFORMATION

Gene Name	IGSF11 immunoglobulin superfamily, member 11 [Homo sapiens]
Official Symbol	IGSF11
Synonyms	IGSF11; immunoglobulin superfamily, member 11; immunoglobulin superfamily member 11; BT IgSF; cancer/testis antigen 119; CT119; Igsf13; MGC35227; VSIG3; CXADR like 1; V-set and immunoglobulin domain containing 3; V-set and

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immunoglobulin domain-containing protein 3; brain and testis-specific immunoglobulin superfamily protein; brain and testis-specific immunoglobulin superfamily protein; BT-IgSF; CXADRL1;

Gene ID 152404

mRNA Refseq NM_001015887

Protein Refseq NP_001015887

MIM 608351

UniProt ID Q5DX21

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