

Active Recombinant Mouse Vsig8 protein, Fc-tagged

Cat. No. Vsig8-239M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Vsig8(Val22-Gly262) fused with Fc region of Mouse IgG2a at C-terminal was expressed in NS0.
Species	Mouse
Source	Mammalian Cells
ProteinLength	22-262 a.a.
Description	VSIG8 (V-set and immunoglobulin domain containing 8), also known as C1orf204, is an approximately 45 kDa type I transmembrane protein of the B7 family within the Ig superfamily. Mature mouse VSIG8 consists of a 241 amino acid (aa) extracellular domain (ECD) containing two V-type Ig-like domains, a 21 aa transmembrane domain, and a 134 aa cytoplasmic domain. Within the ECD, mouse VSIG8 shares 88% and 95% aa identity with human and rat VSIG8, respectively. Alternative splicing generates an isoform of mouse VSIG8 that lacks most of the first Ig-like domain. VSIG8 was identified from proteomic analysis of human hair shafts. It is expressed in the hair follicle and shaft, superficial layers of the nail matrix, and superficial layers of oral epithelium. R&D Systems in-house testing indicates that VSIG8 inhibits the production of IL-2 by activated T cells.
Predicted N Terminal	Val22
Form	Lyophilized from a 0.2 µm filtered solution in PBS.

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Bio-activity	Measured by its ability to inhibit anti-CD3 antibody induced IL-2 secretion in human T lymphocytes. The ED50 for this effect is typically 0.5-3 µg/mL.
Molecular Mass	Predicted Molecular Mass: 54 kDa SDS-PAGE: 56-66 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 100 µg/mL in PBS.

GENE INFORMATION

Gene Name	Vsig8 V-set and immunoglobulin domain containing 8 [Mus musculus]
Official Symbol	Vsig8
Synonyms	EG240916; A030011M19; V-set and immunoglobulin domain-containing protein 8
Gene ID	240916
mRNA Refseq	NM_177723
Protein Refseq	NP_808391

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UniProt ID

Q6P3A4

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