

# Active Recombinant Monkey CD226 Protein, Fc-tagged, Alexa Fluor 647 conjugated

**Cat. No.** CD226-248CAF647    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Alexa Fluor 647 conjugated recombinant Monkey CD226(Glu19-Asn247) fused Fc region of Human IgG1 was expressed in HEK293.
<b>Species</b>	Monkey
<b>Source</b>	HEK293
<b>ProteinLength</b>	19-247 a.a.
<b>Description</b>	DNAX accessory molecule-1 (DNAM-1), also known as CD226, is a 65 kDa type I transmembrane glycoprotein in the immunoglobulin superfamily. Mature Monkey DNAM-1 contains a 236 amino acid (aa) extracellular domain (ECD) with two Ig-like C2-set domains and a 61 aa cytoplasmic region that contains motifs for binding PDZ domains and band 4.1 family proteins. Within the ECD, Monkey DNAM-1 shares 93%, 53% and 50% aa sequence identity with human, mouse, and rat DNAM-1, respectively. DNAM-1 is expressed on multiple lymphoid, myeloid cells, and activated vascular endothelial cells and interacts with CD155/PVR and Nectin-2/CD112. It competes with CD96 and TIGIT for binding to these proteins. It associates in cis with Integrin beta 2/CD18 on activated, but not resting, NK, T, and mast cells. Ligation of DNAM-1 promotes the activation of NK cells, CD8+ T cells, and mast cells, Th17 polarization, dendritic cell maturation, megakaryocyte, and activated platelet adhesion to vascular endothelial cells, and monocyte extravasation; it also inhibits the formation of osteoclasts. Platelet-endothelium interactions mediated by DNAM-1 enable the

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	metastasis of tumor cells to the lung. Downregulation of DNAM-1 on tumor cells can interfere with anti-tumor cellular immunity.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. When Recombinant Cynomolgus Monkey DNAM-1/CD226 Fc Chimera is immobilized at 0.25 µg/mL (100 µL/well), the concentration of Recombinant Human CD155/PVR Fc Chimera that produces 50% of the optimal binding response is approximately 0.2-1 µg/mL.
<b>Molecular Mass</b>	Predicted Molecular Mass: 53 kDa SDS-PAGE: 74-87 kDa, reducing conditions
<b>N-terminal Sequence Analysis</b>	Glu 19
<b>Endotoxin</b>	< 0.1 EU/ µg of the protein by the LAL method.
<b>Purity</b>	> 95 % by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
<b>Storage</b>	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.

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<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Reconstitution</b>	Reconstitute at 1 mg/mL in PBS.
<b>Conjugation</b>	Alexa Fluor 647

## GENE INFORMATION

<b>Gene Name</b>	CD226 CD226 molecule [ <i>Macaca fascicularis</i> ]
<b>Official Symbol</b>	CD226
<b>Synonyms</b>	CD226; CD226 molecule
<b>Gene ID</b>	102117316

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