

Active Recombinant Cynomolgus CD226 protein, Fc-tagged

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

SPECIFICATION

Product Overview	Recombinant Cynomolgus CD226(Glu19-Asn247) fused Fc region of Human IgG1 was expressed in HEK293.
Species	Cynomolgus
Source	HEK293
ProteinLength	19-247 a.a.
Description	DNAX accessory molecule-1 (DNAM-1), also known as CD226, is a 65 kDa type I transmembrane glycoprotein in the immunoglobulin superfamily. Mature cynomolgus 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, cynomolgus 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 metastasis of tumor cells to the lung. Downregulation of DNAM-1 on tumor cells can

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	interfere with anti-tumor cellular immunity.
Predicted N Terminal	Glu19
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	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.
Molecular Mass	Predicted Molecular Mass: 53 kDa SDS-PAGE: 74-87 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 1 mg/mL in PBS.

GENE INFORMATION

Gene Name	CD226 CD226 molecule [<i>Macaca fascicularis</i>]
Official Symbol	CD226

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Synonyms	CD226; CD226 molecule
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Gene ID	102117316
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