

DNAM-1/CD226 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	DNAM1;PTA1;DNAM-1;CD226 molecule;TLISA1
Protein Construction:	Glu19-Asn247
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q15762
Molecular Weight:	39.3 kDa (Reducing conditions)

QC Testing

Biological Activity:	DNAM-1/CD226, His, Human can bind with CHO-K1/aAPC/CD155 Clone by FACS analysis.
Purity:	> 90% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μ m filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD226 (Cluster of Differentiation 226), also known as PTA1 (outdated term, 'platelet and T cell activation antigen 1')[5] or DNAM-1 (DNAX Accessory Molecule-1), is a ~65 kDa glycoprotein expressed on the surface of natural killer cells, platelets, monocytes and a subset of T cells. It is a member of the immunoglobulin superfamily. This protein is involved in intercellular adhesion, lymphocyte signaling, cytotoxicity and lymphokine secretion mediated by cytotoxic T-lymphocyte (CTL) and NK cell. It is the cell surface receptor for NECTIN2 and its main ligands are CD112 and CD155. It stimulates T-cell proliferation and cytokine production, including that of IL-2, IL-5, IL-10, IL-13, and IFN γ upon ligand binding.

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