

## Recombinant Human CD226 Molecule

**Cat. No.** CD226-1603H    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | <p>DNAX accessory molecule 1 (DNAM-1), is a tyrosine-phosphorylated signal-transducing molecule belonging to the immunoglobulin superfamily and participates in primary adhesion during cytotoxic T lymphocyte-mediated cytotoxicity. DNAM-1 is a functional glycoprotein expressed on immune cells, such as natural killer and T-cells. It is activated upon interaction with its biological ligands, the poliovirus receptor and nectin-2. Signaling cascades involving stimulation of DNAM-1 lead to various biological responses, including target cell lysis and immune cell activation. DNAM-1 appears to be an integral molecule in immune responses in cancer, allergic inflammatory disorders and autoimmune diseases.</p> |
| <b>Molecular Weight</b> | <p>The predicted molecular weight of Recombinant Human DNAM-1 is Mr 53 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 90 kDa.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>State Of Matter</b>  | Lyophilized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | >95% by SDS Page and analyzed by silver stain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Endotoxin</b>        | <0.1 ng per 1 g as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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**Storage And Stability**

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

**GENE INFORMATION**

|                            |                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CD226 CD226 molecule [ Homo sapiens ]                                                                                                                                                                          |
| <b>Synonyms</b>            | CD226; CD226 molecule; PTA1; DNAM1; DNAM-1; TLISA1; CD226 antigen; adhesion glycoprotein; DNAX accessory molecule-1; platelet and T cell activation antigen 1; T lineage-specific activation antigen 1 antigen |
| <b>Gene ID</b>             | 10666                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_006566                                                                                                                                                                                                      |
| <b>Protein Refseq</b>      | NP_006557                                                                                                                                                                                                      |
| <b>MIM</b>                 | 605397                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | Q15762                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 18q22                                                                                                                                                                                                          |
| <b>Pathway</b>             | adhesion molecules (CAMs)                                                                                                                                                                                      |
| <b>Function</b>            | cell adhesion molecule binding; integrin binding; protein kinase binding; receptor activity                                                                                                                    |

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