

## Programmed cell death 1 (PDCD1) Recombinant Protein | PDCD1 recombinant protein

Recombinant Human Programmed cell death protein 1 (PDCD1), partial

CATALOG #  
**AAA244044**

HOST  
**E Coli or Yeast or Baculovirus or Mammalian Cell**

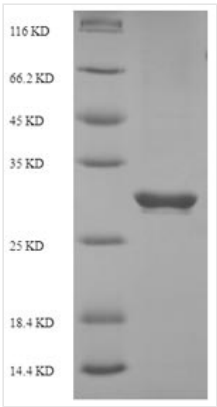
### PRODUCT SYNONYMS

Programmed cell death 1 (PDCD1); Recombinant Human Programmed cell death protein 1 (PDCD1); partial; CD279; CD279 antigen; hPD 1; hPD I; hPD-1; hSLE1; PD 1; PD-1; PD1; PDCD 1; PDCD1; PDCD1\_HUMAN; Programmed cell death 1 ; Programmed cell death 1 protein; Programmed cell death protein 1; Protein PD 1; Protein PD-1; SLEB2 ; Systemic lupus erythematosus susceptibility 2; PDCD1 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                          |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                 |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)<br>If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.<br>If the delivery form is lyophilized powder, the buffer before lyop                                                                                                                                                           |
| Sequence Positions      | 21-170aa; Partial                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence                | PGWFLDSPDR PWNPTTFSPA LLVVTEDGNA TFTCSFSNTS ESFVLNWYRM SPSNQTDKLA AFPEDRSQPG<br>QDCRFRTVL PNGRDFHMSV VRARRNDST YLCGAISLAP KAQIKESLRA ELRVTERRAE VPTAHPSPSP<br>RPAGQFQTLV                                                                                                                                                                                                                                                  |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tag                     | N-terminal 6xHis-SUMO-tagged                                                                                                                                                                                                                                                                                                                                                                                              |
| Pathway                 | Tcell receptor signaling pathway                                                                                                                                                                                                                                                                                                                                                                                          |
| Subcellular Location    | Membrane, Single-pass type I membrane protein                                                                                                                                                                                                                                                                                                                                                                             |
| Function                | Inhibitory cell surface receptor involved in the regulation of T-cell function during immunity and tolerance. Upon ligand binding, inhibits T-cell effector functions in an antigen-specific manner. Possible cell death inducer, in association with other factors.                                                                                                                                                      |
| Reconstitution          | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.                                                                                                                                                                                                                       |

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Categories/Family for PDCD1 recombinant protein | Cell Biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| References                                              | Mural R.J., Istrail S., Sutton G., Florea L., Halpern A.L., Mobarry C.M., Lippert R., Walenz B., Shatkay H., Dew I., Miller J.R., Flanigan M.J., Edwards N.J., Bolanos R., Fasulo D., Halldorsson B.V., Hannenhalli S., Turner R., Yooseph S., Lu F., Nusskern D.R., Shue B.C., Zheng X.H., Zhong F., Delcher A.L., Huson D.H., Kravitz S.A., Mouchard L., Reinert K., Remington K.A., Clark A.G., Waterman M.S., Eichler E.E., Adams M.D., Hunkapiller M.W., Myers E.W., Venter J.C. The role of the PD-1 pathway in autoimmunity and peripheral tolerance. Fife B.T., Pauken K.E. Ann. N. Y. Acad. Sci. 1217:45-59 (2011) |

NCBI AND UNIPROT INFORMATION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| NCBI GI #                        | 145559515                                    |
| NCBI GeneID                      | 5133                                         |
| UniProt Accession #              | Q15116; O00517; Q8IX89                       |
| Molecular Weight                 | 31,647 Da                                    |
| NCBI Official Full Name          | Programmed cell death protein 1              |
| NCBI Official Synonym Full Names | programmed cell death 1                      |
| NCBI Official Symbol             | PDCD1                                        |
| NCBI Official Synonym Symbols    | PD1; PD-1; CD279; SLEB2; hPD-1; hPD-I; hSLE1 |
| NCBI Protein Information         | programmed cell death protein 1              |
| UniProt Protein Name             | Programmed cell death protein 1              |
| UniProt Gene Name                | PDCD1                                        |
| UniProt Synonym Gene Names       | PD1; Protein PD-1; hPD-1                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.