

## Product datasheet for **TP310364M**

### PD1 (PDCD1) (NM\_005018) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human programmed cell death 1 (PDCD1), 100 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA** >RC210364 protein sequence  
**Clone or AA Sequence:** **Red**=Cloning site **Green**=Tags(s)

MQIPQAPWPVWVAVLQLGWRPGWFLDSPDRPWNPTFSPALLVTEGDNATFTCSFSNTSESVLNWYRM  
SPSNQTDKLAAPEDRSQPGQDCRFRTQLPNGRDFHMSVVRARRNDSGTLYCGAISLAPKAQIKESLRA  
ELRVTERRAEVPTAHPSPRPAGQFQTLVGVVGGLLGSLVLLVWVLAVICRAARGTIGARRTGQPLK  
EDPSAVPVFSVDYGELDFQWREKTPEPPVPCVPEQTEYATIVFPSGMGTSSPARRGSADGPRSAQPLRPE  
DGHCSWPL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK  
**Predicted MW:** 29.2 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  
**Storage:** Store at -80°C.  
**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  
**RefSeq:** [NP\\_005009](#)  
**Locus ID:** 5133



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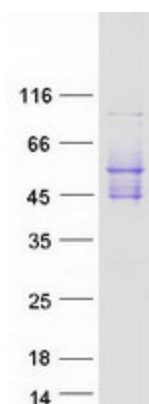
UniProt ID: [Q15116](#), [A0A0M3M0G7](#)  
RefSeq Size: 2115  
Cytogenetics: 2q37.3  
RefSeq ORF: 864  
Synonyms: CD279; hPD-1; hPD-I; hSLE1; PD-1; PD1; SLEB2

**Summary:** Programmed cell death protein 1 (PDCD1) is an immune-inhibitory receptor expressed in activated T cells; it is involved in the regulation of T-cell functions, including those of effector CD8+ T cells. In addition, this protein can also promote the differentiation of CD4+ T cells into T regulatory cells. PDCD1 is expressed in many types of tumors including melanomas, and has demonstrated to play a role in anti-tumor immunity. Moreover, this protein has been shown to be involved in safeguarding against autoimmunity, however, it can also contribute to the inhibition of effective anti-tumor and anti-microbial immunity. [provided by RefSeq, Aug 2020]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs), T cell receptor signaling pathway

### Product images:



Coomassie blue staining of purified PDCD1 protein (Cat# [TP310364]). The protein was produced from HEK293T cells transfected with PDCD1 cDNA clone (Cat# [RC210364]) using MegaTran 2.0 (Cat# [TT210002]).