

## Product datasheet for **TP700198**

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

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens programmed cell death 1 (PDCD1), 25-167aa, with C-terminal DDK/His tag, expressed in HEK293 cells.
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC210364, encoding the extracellular domain (Leu25 - Gln167) of human programmed cell death 1 (PDCD1)
Tag:	C-DDK/His
Predicted MW:	31.65
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	PBS, pH 7.4, 10% glycerol
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:	<a href="#">NP_005009</a>
Locus ID:	5133
UniProt ID:	<a href="#">Q15116</a> , <a href="#">A0A0M3M0G7</a>
RefSeq Size:	2115
Cytogenetics:	2q37.3
RefSeq ORF:	864
Synonyms:	CD279; hPD-1; hPD-I; hSLE1; PD-1; PD1; SLEB2



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**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:**