

## Human PD-1, His Tag, CHO

Catalog Number LDG028PHM

Package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Affinity Tag

His Tag (C-term)

#### Purity

>95% as determined by SDS-PAGE analysis.

#### Endotoxin Level

<0.1 EU per 1 µg of the protein by the LAL method.

#### Expression System

CHO

#### Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

#### Molecular weight

The protein has a calculated MW of 16.76 kDa. The protein migrates as 30-40 kDa under reducing condition (SDS-PAGE analysis).

#### Form

Lyophilized

### Background

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### Background

PD-1, or programmed cell death protein 1, is a cell surface receptor protein primarily expressed on activated T cells. It plays a pivotal role in regulating immune responses by interacting with its ligands, PD-L1 and PD-L2, which are often expressed on cancer cells and antigen-presenting cells. Binding of PD-1 to its ligands leads to inhibition of T cell activation and proliferation, suppressing immune responses against cancer cells and contributing to immune evasion. Blocking the PD-1/PD-L1 interaction with therapeutic antibodies enhances T cell activity, making PD-1 inhibitors a promising approach in cancer immunotherapy.

### Uniprot ID

NP\_005009.2

### Synonyms

Programmed cell death protein 1, CD279

### Sequence Note

Met1-Gln167

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

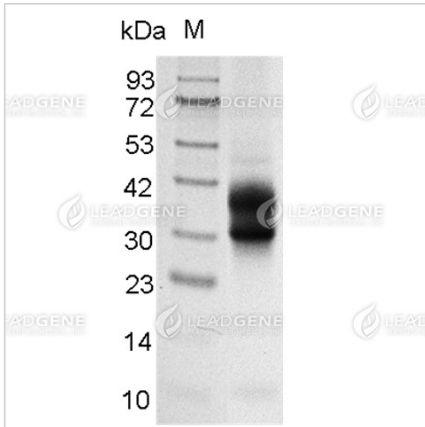
- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image



SDS-PAGE analysis of recombinant human PD-1.

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