

Recombinant Mouse PD-1 protein (His Tag)

Catalog Number: Eg0918

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse PD-1 protein Leu25-Gln167 (Accession# Q02242) with a His tag at the C-terminus.

GeneID:

18566

Accession:

Q02242

Predicted Molecular Mass:

17.2 kDa

SDS-PAGE:

35-45 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Programmed cell death 1 (PD-1, also known as CD279) is an immunoinhibitory receptor that belongs to the CD28/CTLA-4 subfamily of the Ig superfamily. It is a 288 amino acids type I transmembrane protein composed of a Ig superfamily domain, a stalk, a transmembrane domain, and an intracellular domain containing an immunoreceptor tyrosine-based inhibitory motif (ITIM), as well as an immunoreceptor tyrosine-based switch motif (ITSM). PD-1 can be expressed on activated T cells, B cells, natural killer T cells, monocytes, and dendritic cells (DCs). Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function. It is critical for the regulation of T cell function during tolerance, autoimmunity and infection. Blockade of PD-1 can overcome immune resistance and also has been shown to have antitumor activity.

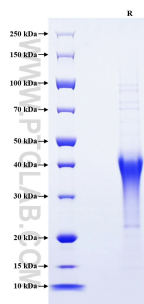
References

1. Arlene H Sharpe, et al. (2007) Nat Immunol. 8(3):239-45.
2. Mary E Keir, et al. (2008) Annu Rev Immunol. 26:677-704.
3. James L Riley. (2009) Immunol Rev. 229(1):114-25.
4. Loise M Francisco, et al. (2010) Immunol Rev. 236:219-42.
5. Suzanne L Topalian, et al. (2012) N Engl J Med. 366(26):2443-54.

Synonyms

CD279, PD1, PD 1, Pdc1, Pdcd1

Selected Validation Data



Purity of Recombinant Mouse PD-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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