
Product Data Sheet

Product Name: PD-1 Protein, Human (HEK293, Fc)

Cat. No.: GC26685

Batch No.: 1

Product Data

Purity	>98%	Source	HEK293
Physical Appearance	solid	Shipping Condition	Shipping with dry ice.
Synonyms	CD279; hPD-1; PDCD1; Programmed cell death 1; SLEB2		
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.		

Introduction

PD-1 protein is an inhibitory receptor on T cells that maintains immune tolerance by binding to CD274/PDCD1L1 and CD273/PDCD1LG2. It blocks T cell activation by binding to CD3-TCR and recruiting PTPN11/SHP-2 to dephosphorylate key signaling molecules. PD-1 Protein, Human (HEK293, Fc) is the recombinant human-derived PD-1 protein, expressed by HEK293, with C-hFc labeled tag. The total length of PD-1 Protein, Human (HEK293, Fc) is 143 a.a., with molecular weight of 55-66 kDa.

Biological Activity

1. Immobilized PD-1 Protein, Human, Recombinant (ECD, hFc Tag) at 2 µg/mL (100 µL/well) can bind PD-L2 Protein, Human, Recombinant (ECD, His Tag), the EC₅₀ is 45-280ng/mL. 2. Immobilized Recombinant Human PD1 / PDCD1 / CD279 Protein (Fc Tag) at 2 µg/mL (100 µL/well) can bind Recombinant Human PD-L1 Protein (Fc & AVI Tag), Biotinylated, the EC₅₀ is 25-75 ng/mL. 3. Labeled biotin to PD-1 Protein, Human, Recombinant (Fc Tag) by a certain molar ratio; Using the Octet RED System, the affinity constant (K_d) of PD-1 Protein, Human, Recombinant (Fc Tag), Biotinylated bound to Atezolizumab was 0.3 nM.

Stability

Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

PD-1 protein is an inhibitory receptor on T cells that maintains immune tolerance by binding to CD274/PDCD1L1 and CD273/PDCD1LG2. It blocks T cell activation by binding to CD3-TCR and recruiting PTPN11/SHP-2 to dephosphorylate key signaling molecules. PD-1 Protein, Human (HEK293, Fc) is the recombinant human-derived PD-1 protein, expressed by HEK293 , with C-hFc labeled tag. The total length of PD-1 Protein, Human (HEK293, Fc) is 143 a.a., with molecular weight of 55-66 kDa.

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