

Biotinylated Human PD1 Protein; His-Avi Tag

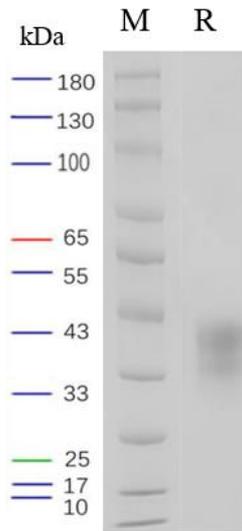
Product Information

Product Name	Biotinylated Human PD1 Protein; His-Avi Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-87594RP-25 / 25 μg GM-87594RP-200 / 200 μg

Protein Information

Alternative Names	PDCD1,PD1,CD279,SLEB2
Source	Biotinylated Human PD1 Protein; His-Avi Tag (GM-87594RP) is expressed from human 293 cells (HEK-293). It contains AA Leu 25 - Gln 167 (Accession # Q15116-1). This protein carries a His-Avi tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	18.2 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.4.
Description	PD-1 (Programmed cell death protein 1), also known as PD1 protein, is an immune regulatory receptor located on the surface of human cells. PD-1 is an immune checkpoint protein that regulates the activation and function of T cells by interacting with its ligands, PD-L1 (Programmed Cell Death Ligand 1) or PD-L2. PD-1 is primarily expressed on activated T cells and B cells, playing a role in suppressing immune responses and maintaining immune system balance. Research has shown that PD-1 protein plays an important role in the tumor microenvironment, where tumor cells can evade attacks from the immune system by binding to PD-L1. Therefore, the interaction between PD-1 and PD-L1 has become a critical target in tumor immunotherapy. Inhibiting the interaction between PD-1 and PD-L1 can restore the immune cells' ability to recognize and attack tumors, providing a new approach for tumor immunotherapy.

SDS-PAGE

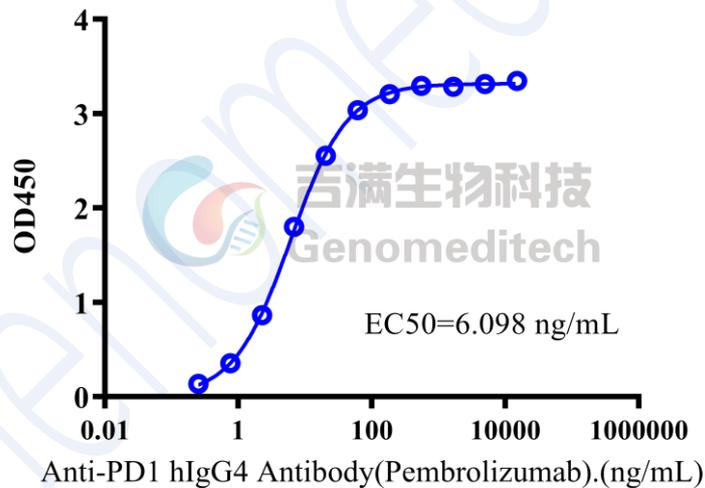


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Bioactivity-ELISA

0.1 μg Biotinylated Human PD1 Protein; His-Avi Tag of per well



Biotinylated Human PD1 Protein; His-Avi Tag (Catalog # GM-87594RP) was immobilized at 1 $\mu\text{g}/\text{ml}$ (100 $\mu\text{L}/\text{well}$) on streptavidin precoated. Increasing concentrations of Anti-PD1 hIgG4 Antibody(Pembrolizumab) (Catalog # GM-52674AB) were added.