

Human PD1 Protein; hFc Tag

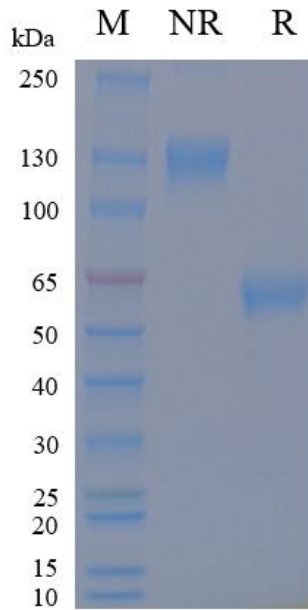
Product Information

Product Name	Human PD1 Protein; hFc 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-87595RP-100 / 100 μg GM-87595RP-1000 / 1 mg

Protein Information

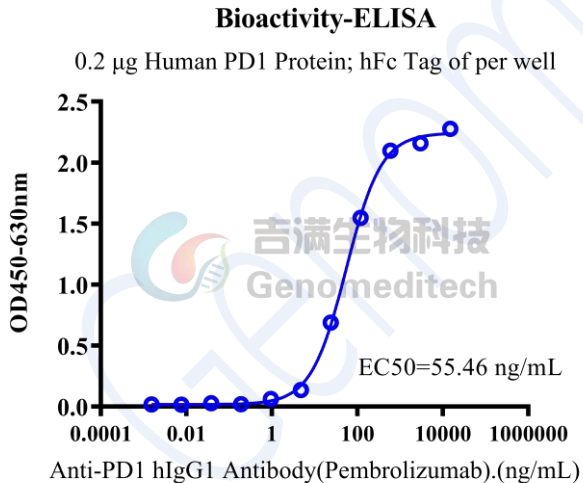
Alternative Names	PDCD1, PD1, CD279, SLEB2
Source	Human PD1 Protein; hFc Tag (GM-87595RP) is expressed from human 293 cells (HEK-293). It contains AA Leu 25 - Gln 167 (Accession # Q15116-1). This protein carries a hFc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	41.9 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.2-7.4.
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

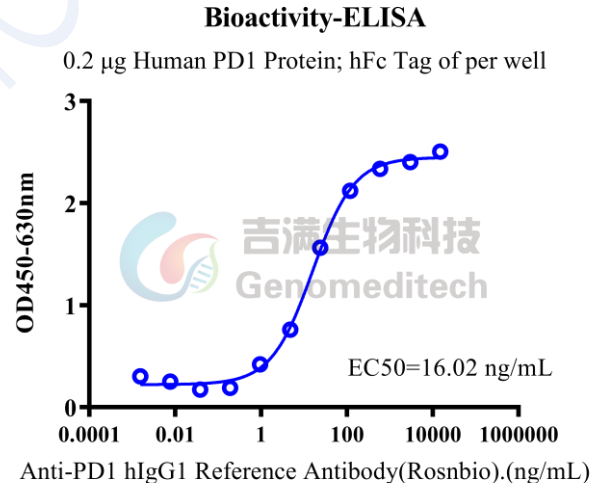


On SDS-PAGE under non-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

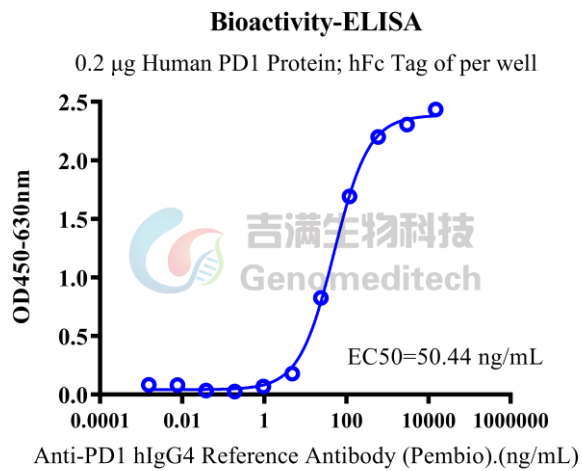
Bioactivity-ELISA



Human PD1 Protein; hFc Tag (Catalog # GM-87595RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-PD1 hIgG1 Antibody (Pembrolizumab) (Catalog # GM-88202AB) were added.



Human PD1 Protein; hFc Tag (Catalog # GM-87595RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-PD1 hIgG1 Reference Antibody (Rosnbio) (Catalog # GM-87930MAB) were added.



Human PD1 Protein; hFc Tag (Catalog # GM-87595RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-PD1 hIgG4 Reference Antibody (Pembio) (Catalog # GM-87802MAB) were added.