PDCD1
Recombinant Human PD-1/CD279:Fc Chimera Non-Lytic

Catalog No.	CRH047	**Quantity:**	200 µg

Alternate Names: PD1, PD-1, CD279, SLEB2, hPD-1, hPD-l, hSLE1

Description: CD279 (Programmed Cell Death Protein 1; PD-1) is a type I transmembrane protein belonging to the CD28/CTLA-4 family of immunoreceptors that mediate signals for regulating immune responses. Members of the CD28/CTLA-4 family have been shown to either promote T cell activation (CD28 and ICOS) or downregulate T cell activation (CTLA-4 and PD-1). CD279 is expressed on activated T cells, B cells, myeloid cells and on a subset of thymocytes. In vitro, ligation of CD279 inhibits TCR-mediated T cell proliferation and production of IL-1, IL-4, IL-10 and IFN-γ. In addition, CD279 ligation also inhibits BCR mediated signaling. CD279 deficient mice have a defect in peripheral tolerance and spontaneously develop autoimmune diseases.

The extracellular domain of human CD279 [PD-1] (aa 25-167) is fused to the N-terminus of the Fc region of a mutant human IgG1.

The chimera is non-lytic and acts as a long lasting fusion protein that only binds to the receptor. Mutations to the complement (C1q) and FcgR I binding sites of the IgGs Fc fragment render the fusion proteins incapable of antibody directed cytotoxicity (ADCC) and complement directed cytotoxicity (CDC).

Gene ID: 5133

Protein Accession No: NP_005009.2

Source: CHO cells

Formulation: Lyophilized from a 0.2 µm filtered solution containing PBS.

Purity: ≥98% (SDS-PAGE)

Endotoxin Level: <0.06 EU/µg purified protein as determined by LAL test (Lonza).

Biological Activity: Shows the biological function of the CD279 moiety and exerts a prolonged circulating halflife caused by the modified Fc domain.

Reconstitution: Reconstitute at 100 µg/ml in sterile PBS.

Storage & Stability: Store at 4°C upon arrival and at -20°C for long term. Lyophilized product is stable for at least 1 year after receipt when stored at -20°C. After reconstitution, prepare aliquots and store at -20°C. Stable for up to 3 month at -20°C. **Avoid repeated freeze-thaw cycles.**

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