PDCD1LG2
Recombinant Human PD-L2/CD273:Fc Chimera Non-Lytic

Catalog No.	CRH034	**Quantity:**	100 µg

Alternate Names: B7DC, Btdc, PDL2, CD273, PD-L2, PDCD1L2

Description: T cells require a signal induced by the engagement of the T cell receptor and a costimulatory signal(s) through distinct T cell surface molecules for optimal T cell activation and tolerance. CD273 (PD-L2) is one of two ligands for programmed death-1 (PD-1; CD279), a member of the CD28 family of immunoreceptors. The other identified ligand is PD-L1. CD273 is broadly expressed and also up regulated in a variety of tumor cell lines. On previously activated T cells, CD273 interaction with PD-1 inhibits TCR mediated proliferation and cytokine production, suggesting an inhibitory role in regulating immune responses. CD273 has a costimulatory function on resting T cells activated with suboptimal TCR signals.

The extracellular domain of human CD273 [PD-L2] (aa 20-219) 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: 80380

Protein Accession No: NP_079515.2

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 CD273 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.

Reconstitution: Reconstitute with 1 ml (100 µg/ml) 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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