

## CD274

### Recombinant Mouse PD-L1/CD274:Fc Chimera Non-Lytic

<b>Catalog No.</b>	CRM039	<b>Quantity:</b>	100 µg
<b>Alternate Names:</b>	B7h1, Pdcd1l1, Pdcd1lg1, Pdl1		
<b>Description:</b>	<p>Programmed death ligand 1 (PD-L1, B7-H1 or CD274) is a member of the growing B7 family of immune proteins that provide signals for both stimulating and inhibiting T cell activation. CD274 has been identified as one of two ligands for programmed death 1 (PD-1), a member of the CD28 family of immunoreceptors. CD274 is widely expressed in several organs such as heart, skeletal muscle, placenta and lung, and in lower amounts in thymus, spleen, kidney and liver. CD274 expression is upregulated in a small fraction of activated T and B cells and a much larger fraction of activated monocytes. CD274 expression is also induced in dendritic cells and keratinocytes after IFN-γ stimulation. CD274 expression is also upregulated in a variety of tumor cell lines. Interaction of CD274 with PD-1 results in inhibition of TCR mediated proliferation and cytokine production, suggesting an inhibitory role in regulating immune responses.. The CD274 - PD-1 pathway is involved in the negative regulation of some immune responses and may play an important role in the regulation of peripheral tolerance.</p> <p>Mutant chimera is non-lytic and acts as a long lasting fusion protein which only binds to the receptor. Mutations to the complement (C1q) and FcγR I binding sites of the IgGs Fc fragment render the fusion proteins incapable of antibody directed cytotoxicity (ADCC) and complement directed cytotoxicity (CDC).</p> <p>The extracellular domain of mouse CD274 [B7-H1] (aa 19-237) is fused to the N-terminus of the Fc region of a mutant mouse IgG2a.</p>		
<b>Gene ID:</b>	60533		
<b>Protein Accession No:</b>	NP_068693.1		
<b>Source:</b>	CHO cells		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered solution containing PBS.		
<b>Purity:</b>	≥98% (SDS-PAGE)		
<b>Endotoxin Level:</b>	<0.06 EU/µg purified protein as determined by LAL test (Lonza).		
<b>Biological Activity:</b>	Shows the biological function of the CD274 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.		
<b>Reconstitution:</b>	Reconstitute at 100 µg/ml in sterile PBS.		
<b>Storage &amp; Stability:</b>	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. <b>Avoid repeated freeze-thaw cycles.</b>		

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

