

Recombinant Mouse Cd274 protein, C-hFc-Avi Tag, Biotinylated

Product Information

Cat	IMP-466
Official Symbol	Cd274
Product Overview	<i>Biotinylated Recombinant Mouse CD274 (NP_068693.1) (Met1-Thr238) was expressed in HEK293, fused with c-terminal Fc region of Human IgG1 tagged AVI tag at the C-terminus.</i>
Description	<i>Programmed death-1 ligand-1 (PD-L1, CD274, B7-H1) has been identified as the ligand for the immunoinhibitory receptor programmed death-1(PD1/PDCD1) and has been demonstrated to play a role in the regulation of immune responses and peripheral tolerance. PD-L1/B7-H1 is a member of the growing B7 family of immune molecules and this protein contains one V-like and one C-like Ig domain within the extracellular domain, and together with PD-L2, are two ligands for PD1 which belongs to the CD28/CTLA4 family expressed on activated lymphoid cells. By binding to PD1 on activated T-cells and B-cells, PD-L1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression. Accordingly, it leads to growth of immunogenic tumor growth by increasing apoptosis of antigen specific T cells and may contribute to immune evasion by cancers. PD-L1 thus is regarded as promising therapeutic target for human autoimmune disease and malignant cancers.</i>
Expression System	HEK293
Species	Mouse
Tag	C-hFc-Avi Tag
Predicted N Terminal	Phe 19
Form	<i>Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.</i>
Molecular Mass	<i>The recombinant mouse CD274 consists of 473 amino acids and predicts a molecular mass of 53.3 kDa.</i>
Protein length	Met1-Thr238
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Storage	<i>Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid</i>

repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.