


## Human CD274/PD-L1 protein, His tag (Animal-Free)

Cat #: PRP2021

Size: 10 µg/ 50 µg/100 µg /1 mg

### Product Information

	<b>Product Name:</b> Human CD274/PD-L1 protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP2021	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> >98% as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20C		<b>Preparation method:</b> HEK 293 cells
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** 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. Plays a critical role in induction and maintenance of immune tolerance to self. As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response. Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10). The PDCD1-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and escape destruction by the immune system, thereby facilitating tumor survival. The interaction with PDCD1/PD-1 inhibits cytotoxic T lymphocytes (CTLs) effector function (By similarity). The blockage of the PDCD1-mediated pathway results in the reversal of the exhausted T-cell phenotype and the normalization of the anti-tumor response, providing a rationale for cancer immunotherapy.

**Sequence:** Amino acid sequence derived from human CD274 (NP\_054862.1) (Met1-Thr239) was expressed with a 6 His tag at the C-terminus.

**Protein length:** The recombinant human CD274 consists of 227 amino acids and predicts a molecular mass of 26.8 kD. It migrates as an approximately 33-40 kD band in SDS-PAGE under reducing conditions due to glycosylation.

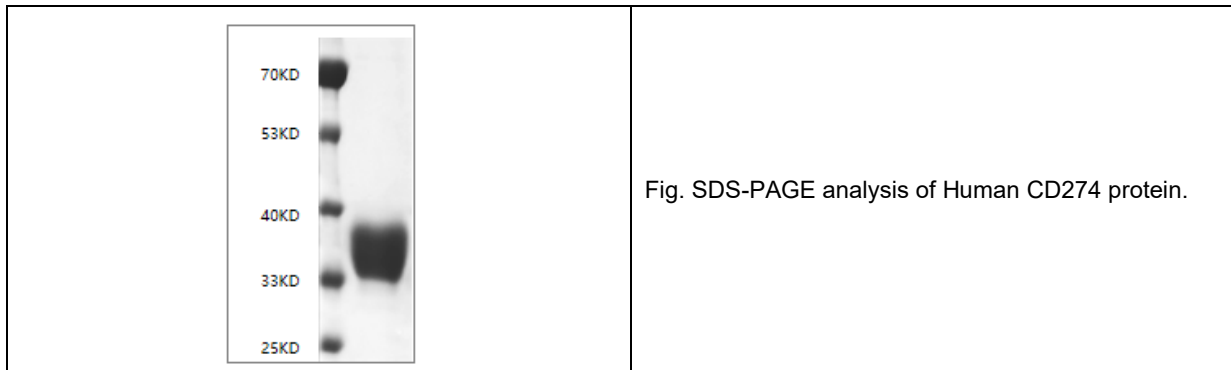
**Endotoxin:** < 1.0 EU per µg of the protein as determined by the LAL method.

**Formulation:** Lyophilized from sterile PBS, pH 7.4.

**Storage Instructions:** Lyophilized Human CD274 protein product should be stored desiccated below -18C. Upon reconstitution, the protein should be stored at 4C between 2 -7 days and for future use below -18C. For long term storage it

is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human CD274 protein using the buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.