

## PD-L2 Protein, Human (Biotinylated, HEK293, His)

Cat. No.:	HY-P77528
Synonyms:	Programmed cell death 1 ligand 2; PD-1 ligand 2; PD-L2; B7-DC; CD273
Species:	Human
Source:	HEK293
Accession:	Q9BQ51 (L20-P219)
Gene ID:	80380
Molecular Weight:	Approximately 24 kDa.

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	PD-L2 Protein is integral to the costimulatory signal crucial for T-cell proliferation and IFNG production, operating in a PDCD1-independent manner. Its interaction with PDCD1, however, functions to inhibit T-cell proliferation by impeding cell cycle progression and cytokine production. The intricate interplay between PD-L2 and PDCD1 underscores its role as a regulatory checkpoint in modulating immune responses, influencing the activation and function of T cells. This molecular interaction adds a layer of complexity to the dynamic mechanisms governing T-cell behavior, highlighting PD-L2's versatile role in immune regulation.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA