

6042 Cornerstone Court W, Ste B San Diego, CA 92121 **Tel:** 1.858.829.3082

Fax: 1.858.481.8694 Email: info@bpsbioscience.com

# **Data Sheet**

# PD-L1 - CHO Recombinant Cell line Cat. #: 60543

# **Product Description**

Recombinant CHO-K1 cells constitutively expressing human PD-L1 (Programmed Cell Death 1 Ligand 1, CD274, B7 homolog 1 (B7- H1), GenBank accession #NM\_014143).

### **Background**

The binding of Programmed Cell Death Protein 1 (PD-1), a receptor expressed on activated T-cells, to its ligands, PD-L1 and PD-L2, negatively regulates immune responses. The PD-1 ligands are found on most cancers, and PD-1:PD-L1/2 interaction inhibits T cell activity and allows cancer cells to escape immune surveillance. The PD-1:PD-L1/2 pathway is also involved in regulating autoimmune responses, making these proteins promising therapeutic targets for a number of cancers, as well as multiple sclerosis, arthritis, lupus, and type I diabetes.

# **Applications**

Screen PD-L1 antibodies for binding affinity and biological assays.

#### **Format**

Each vial contains ~2.5 x 10<sup>6</sup> cells in 1 ml of 10% DMSO

# Storage

Immediately upon receipt, store in liquid nitrogen.

#### Mycoplasma Testing

The cell line has been screened using the PCR-based Venor®GeM Mycoplasma Detection kit (Sigma-Aldrich) to confirm the absence of *Mycoplasma* species.

#### **General Culture Conditions**

**Thaw Medium 3 (BPS Bioscience, #60186):** Ham's F-12 medium (Hyclone #SH30526.01) supplemented with 10% FBS (Life technologies #26140-079), 1% Penicillin/Streptomycin (Hyclone #SV30010.01).

**Growth Medium 3D (BPS Bioscience, #79539):** Thaw Medium 3 (BPS Bioscience, #60186) plus 1 mg/ml G418 (Thermo Fisher, #11811031).



6042 Cornerstone Court W, Ste B San Diego, CA 92121

**Tel:** 1.858.829.3082 **Fax:** 1.858.481.8694

Email: info@bpsbioscience.com

It is recommended to quickly thaw the frozen cells from liquid nitrogen in a 37°C water-bath, transfer to a tube containing 10 ml of Thaw Medium 3 (without Geneticin), spin down cells, resuspend cells in pre-warmed Thaw Medium 3 (without Geneticin), transfer re-suspended cells to T25 flask and culture in 37°C CO<sub>2</sub> incubator overnight. The next day, replace the medium with fresh Thaw Medium 3 (without Geneticin), and continue growing culture in a CO<sub>2</sub> incubator at 37°C until the cells are ready to be split. Cells should be split before they reach complete confluence. At first passage switch to Growth Medium 3D (containing Geneticin).

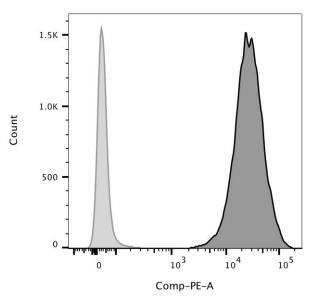
To passage the cells, rinse cells with phosphate buffered saline (PBS), detach cells from culture vessel with 0.05% Trypsin/EDTA, add Growth Medium 3D and transfer to a tube, spin down cells, re-suspend cells and seed appropriate aliquots of cell suspension into new culture vessels. Sub cultivation ration: 1:10 to 1:20 twice a week.

#### **Cell Validation**

Expression of human PD-L1 in PD-L1-CHO cells was confirmed by Western blotting and FACS.

# Figure 1. FACS analysis of cell surface expression of PD-L1 in PD-L1-CHO cells.

PD-L1-CHO or parental CHO-K1 cells were stained with PE-labeled anti-PD-L1 antibody (BPS Bioscience #71128) and analyzed by FACS. Y-axis shows the cell count. X-axis shows the intensity of PE fluorescence.



Samples	Subset	Cell Count
Parental CHO cell + PE-anti-PD-L1 Ab	Live cells	20339
PD-L1-CHO cell + PE-anti-PD-L1 Ab	Live cells	20014

OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

To place your order, please contact us by Phone 1.858.829.3082 Fax 1.858.481.8694



6042 Cornerstone Court W, Ste B San Diego, CA 92121 **Tel:** 1.858.829.3082

Fax: 1.858.481.8694
Email: info@bpsbioscience.com

0:--

# Sequence

hPD-L1 sequence (Genbank accession #NM 014143)

MRIFAVFIFMTYWHLLNAFTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKNI IQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITV KVNAPYNKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFN VTSTLRINTTTNEIFYCTFRRLDPEENHTAELVIPELPLAHPPNERTHLVILGAILLCLGVALT FIFRLRKGRMMDVKKCGIQDTNSKKQSDTHLEET

#### **Related Products**

## **Product**

	Size
60535	2 vials
60536	2 vials
60621	2 vials
60539	2 vials
71120	100 µg
71213	100 µg
71128-1	50 µg
71214	100 µg
60610	500 rxns.
60620	500 rxns.
60690-1	10 ml
71106	100 µg
71198	50 µg
71104-1	50 µg
71183	50 µg
71107	100 µg
71109	50 µg
71105	50 µg
	60536 60621 60539 71120 71213 71128-1 71214 60610 60620 60690-1 71106 71198 71104-1 71183 71107 71109

#### Notes

License Disclosure: Purchase of this cell line grants you with a 10-year license to use this cell line in your immediate laboratory, for research use only. This license does not permit you to share, distribute, sell, sublicense, or otherwise make the cell line available for use to other laboratories, departments, research institutions, hospitals, universities, or biotech companies. The license does not permit the use of this cell line in humans or for therapeutic or drug use. The license does not permit modification of the cell line in any way. Inappropriate use or distribution of this cell line will result in revocation of the license and result in an immediate

OUR PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE. To place your order, please contact us by Phone **1.858.829.3082** Fax **1.858.481.8694** 

Or you can Email us at: <a href="mailto:info@bpsbioscience.com">info@bpsbioscience.com</a>
Please visit our website at: <a href="mailto:www.bpsbioscience.com">www.bpsbioscience.com</a>



6042 Cornerstone Court W, Ste B San Diego, CA 92121 **Tel:** 1.858.829.3082

Fax: 1.858.481.8694
Email: info@bpsbioscience.com

cease of sales and distribution of BPS products to your laboratory. BPS does not warrant the suitability of the cell line for any particular use, and does not accept any liability in connection with the handling or use of the cell line. Modifications of this cell line, transfer to another facility, or commercial use of the cells may require a separate license and additional fees; contact sales@bpsbioscience.com for details. Publications using this cell line should reference BPS Bioscience, Inc., San Diego.