

Recombinant Mouse PD-L1 / CD274

MESGEN
INNOVATION BIOTECHNOLOGY

Cat.No # MPL2509

Lot.No : Refer to Vial



Packaging: 50µg \ 500µg \ 1mg

Description

Recombinant Mouse Programmed Cell Death 1 Ligand 1 is produced by our Mammalian expression system and the target gene encoding Phe19-Thr238 is expressed with a 6His tag at the C-terminus.

Accession #: Q9EP73

Known as : Programmed cell death 1 ligand 1; programmed cell death 1 ligand 1; PD-L1; PDCD1 ligand 1; programmed death ligand 1; B7 homolog 1; B7-H1; CD274

Background

Mouse Programmed cell death 1 ligand 1 (Cd274, PD-L1), is a member of the growing B7 family of immune proteins. It is involved in the costimulatory signal essential for T-cell proliferation and IFN γ production in a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production. B7-H1 has been identified as one of two ligands for programmed death 1 (PD1), a member of the CD28 family of immunoreceptors. B7-H1 is constitutively expressed in several organs such as heart, skeletal muscle. B7-H1 expression is upregulated in a small fraction of activated T and B cells and a much larger fraction of activated monocytes. The costimulatory function of B7-H1 is critical for enhancing maturation and differentiation of T-cells in lymphoid organs. B7-H1 expression is also induced in dendritic cells and keratinocytes after IFN γ stimulation. Interaction of B7-H1 with PD1 results in inhibition of TCR-mediated proliferation and cytokine production. The B7-H1:PD1 pathway is involved in the negative regulation of some immune responses and may play an important role in the regulation of peripheral tolerance.

Quality control

Purity : Greater than 95% as determined by reducing SDS-PAGE.

Endotoxin : Less than 0.1 ng/ug (1 EU/ug) as determined by LAL test.

Dissolution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Reconstitution

Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Store condition

Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Aliquots of reconstituted samples are stable at < -20°C for 3 months.

For Research Use Only. Not for use in diagnostic procedures.

