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Datasheet for ABIN7275435

PD-L1 Protein (AA 19-238) (His tag)

3 Images

Overview

Quantity:	100 µg
Target:	PD-L1
Protein Characteristics:	AA 19-238
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PD-L1 protein is labelled with His tag.

Product Details

Purpose:	Mouse PD-L1/B7-H1 Protein
Sequence:	Phe19-Thr238
Characteristics:	Recombinant Mouse PD-L1/B7-H1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe19-Thr238.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.15µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

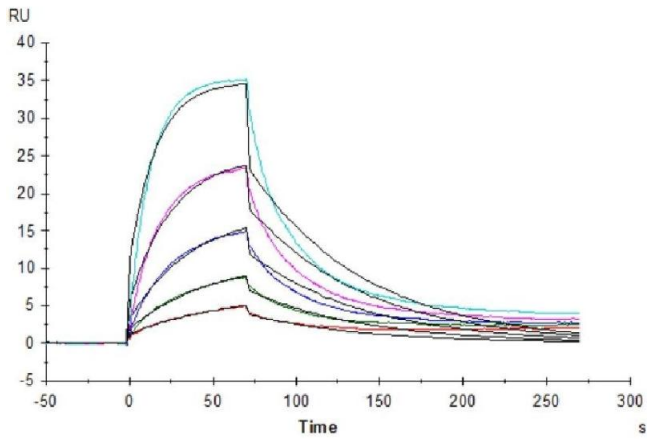
Target:	PD-L1
Alternative Name:	PD-L1 (PD-L1 Products)
Background:	B7-H1, also known as PD-L1 and CD274, is an approximately 65 kDa transmembrane glycoprotein in the B7 family of immune regulatory molecules. PD-L1 has been identified as the ligand for the immunoinhibitory receptor programmed death-1(PD1/PDCD1) and has been demonstrated to play a role in the regulation of immune responses and peripheral tolerance.
Molecular Weight:	25.9 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Tris-Bis PAGE result.
NCBI Accession:	NP_068693
Pathways:	Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
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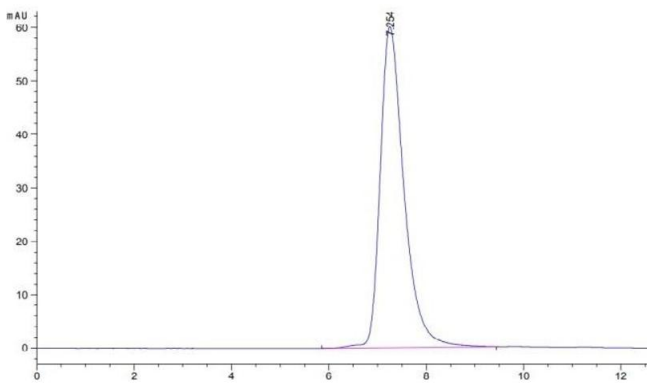
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



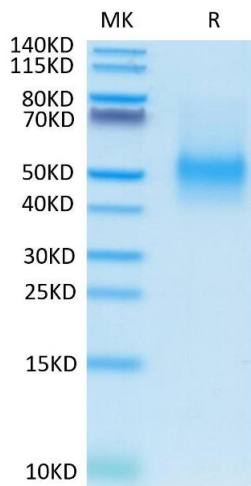
Surface Plasmon Resonance

Image 1. Mouse PD-L1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Mouse PD-1 , hFc Tag with an affinity constant of 0.15 μ M as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Mouse PD-L1 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Mouse PD-L1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .