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



Images



Overview

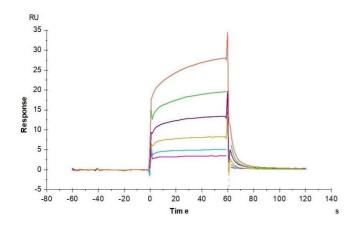
Quantity:	100 μg
Target:	PD-L1
Protein Characteristics:	AA 19-238
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PD-L1 protein is labelled with His tag, Biotin.

Product Details

Purpose:	Biotinylated Mouse PD-L1/B7-H1 Protein (Primary Amine Labeling)
Sequence:	Phe19-Thr238
Characteristics:	Recombinant Biotinylated Mouse PD-L1/B7-H1 Protein (Primary Amine Labeling) 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 3.06 μM as determined in SPR assay (Biacore T200). See testing image for detail.

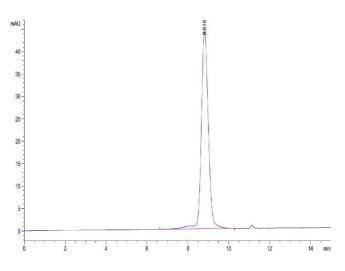
Target Details

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
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-1, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Mouse PD-L1, His Tag with an affinity constant of 3.06 μ M as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

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



SDS-PAGE

 $\label{eq:mage 3.} \textbf{Biotinylated Mouse PD-L1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 \% \, .$