

Recombinant Human PD-L1/B7-H1 Protein

Catalog No	RP00068	Category	Protein
Description	Recombinant Human PD-L1/B7-H1 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Phe19-Thr239) of human PD-L1/B7-H1 (Accession #NP_054862.1) fused with a 6×His tag at the C-terminus.		

Sequence Information

Species	Human	Gene ID	29126
Tags	6×His tag at the C-terminus	Swiss Prot	Q9NZQ7
Synonyms	B7-H;B7H1;PD-L1;PDCD1L1;PDCD1LG1;PDL1		
AA Sequence	FTVTVPKDLVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKNIIQFVHGEECLKVQH SSYRQRARLLKQSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNAPYNKIN QRILVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLR INTTTNEIFYCTFRRLDPEENHTAELVIPELPLAHPNERT		

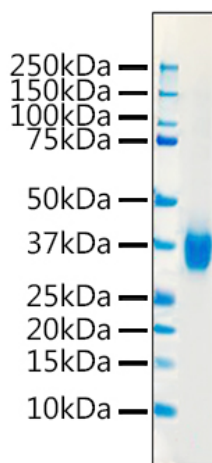
Product information

Source	HEK293 cells
Purity	> 97% by SDS-PAGE.
Endotoxin	< 0.1 EU/μg of the protein by LAL method.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Background

This protein is an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation.

SDS-PAGE



Recombinant Human PD-L1/B7-H1 was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 31-41 kDa.

Bioactivity