

Recombinant Mouse PD-L1/B7-H1 (His Tag)

产品信息

产品名称	产品编号	规格
Recombinant Mouse PD-L1/B7-H1 (His Tag)	93590ES25	25 µg
	93590ES60	100 µg
	93590ES76	500 µg
	93590ES80	1 mg

产品描述

B7-H1, also known as PD-L1 and CD274, is an approximately 65 kDa transmembrane glycoprotein in the B7 family of immune regulatory molecules. Mature mouse B7-H1 consists of a 221 amino acid (aa) extracellular domain (ECD) with two immunoglobulin-like domains, a 21 aa transmembrane segment, and a 30 aa cytoplasmic domain. Within the ECD, mouse B7-H1 shares 73% and 86% aa sequence identity with human and rat B7-H1, respectively. B7-H1 is expressed on inflammatory-activated immune cells including macrophages, T cells, and B cells, keratinocytes, endothelial and intestinal epithelial cells, as well as a variety of carcinomas and melanoma. B7-H1 binds to T cell B7-1/CD80 and PD-1. It suppresses T cell activation and proliferation and induces the apoptosis of activated T cells. It plays a role in the development of immune tolerance by promoting T cell anergy and enhancing regulatory T cell development. B7-H1 favors the development of anti-inflammatory IL-10 and IL-22 producing dendritic cells and inhibits the development of Th17 cells. In cancer, B7-H1 provides resistance to T cell mediated lysis, enhances EMT, and enhances the tumorigenic function of Th22 cells.

产品性质

别名	CD274; PDL1; PD-L1; PD-L1B7 homolog 1; B7-H; B7H1; B7-H1; PDCD1L1; PDCD1LG1
Uniprot No.	Q9EP73.1
表达区间及表达系统	Recombinant Mouse PD-L1/B7-H1 Protein is expressed from HEK293 Cells with His tag at the C-terminal. It contains Phe19-Thr238.
分子量	Approximately 25.9 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Tris-Bis PAGE result.
纯度	> 95% as determined by SDS-PAGE and HPLC.
活性	SPR Data: 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 µM as determined in SPR assay (Biacore T200).
内毒素	< 1.0 EU per 1µg of the protein by the LAL method.
制剂	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
复溶	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

运输与保存方法

冰袋运输。-20°C至-80°C保存，一年有效期。

复溶后，-20 至 -80°C，在未开封状态下保存 3-6 个月。复溶后，2-8°C 保存 2-7 天。

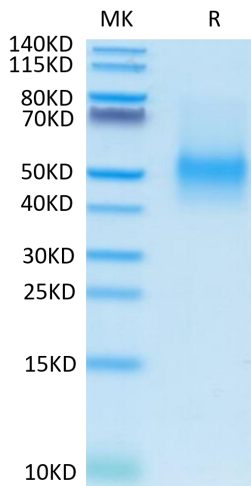
建议第一次使用时分装冻存，避免反复冻融。

注意事项

1. 避免反复冻融。
2. 为了您的安全和健康，请穿实验服并戴一次性手套操作。
3. 本产品仅作科研用途！

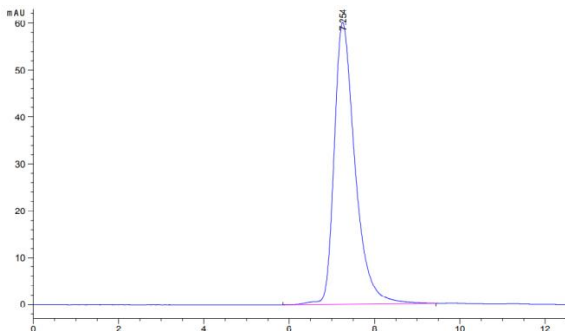
产品数据

Tris-Bis PAGE



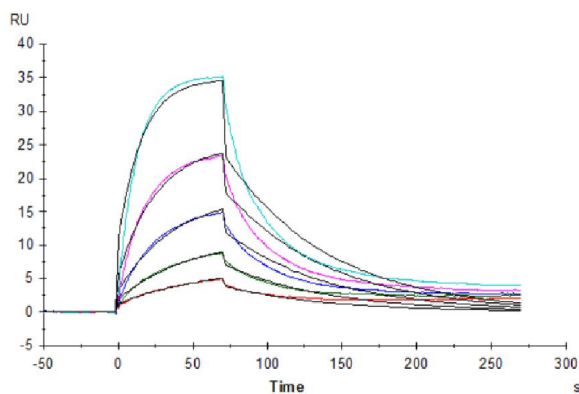
Mouse PD-L1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



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

SPR Data



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 $0.15\mu\text{M}$ as determined in SPR assay (Biacore T200).