

Recombinant Human B7-H4 (hFc Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human B7-H4 (hFc Tag)	93573ES25	25 µg
	93573ES60	100 µg
	93573ES76	500 µg
	93573ES80	1 mg

产品描述

B7-H4, also known as VTCN1, B7x and B7S1, is a 50-80 kDa glycosylated member of the BTN/MOG family of immunomodulatory protein. Mature human B7-H4 consists of a 235 amino acid (aa) extracellular domain (ECD) with one Ig-like V-set domain and one Ig-like C2-set domain, a 21 aa transmembrane segment, and a 2 aa cytoplasmic tail. Within the ECD, human B7-H4 shares 90% aa sequence identity with mouse and rat B7-H4. It shares 22%-28% aa sequence identity with human B7-1, B7-2, B7-H1, B7-H2, B7-H3, and PD-L2. Alternate splicing of human B7-H4 generates an additional isoform that lacks the first Ig-like domain. B7-H4 is expressed on the surface of activated lymphocytes, macrophages, monocytes, dendritic cells, epithelial cells, and bone marrow-derived mesenchymal stem cells. Following binding to activated T cells, B7-H4 serves as a co-inhibitor of the T cell response. This is accomplished by reverse signaling that can induce either cell cycle arrest, or apoptosis in B7-H4 expressing cells. B7-H4 is up-regulated in several carcinomas in correlation with tumor progression and metastasis. A soluble form of B7-H4 is elevated in the serum of ovarian cancer, renal cell carcinoma, and rheumatoid arthritis patients, also in correlation with advanced disease status. Soluble B7-H4 functions as a decoy molecule that blocks the inhibitory influence of B7-H4 on immune activation. Despite evidence for the involvement of B7-H4 in immune regulation, mice deficient in its expression do not show significant immune deficiencies, suggesting compensation by other molecules in vivo.

产品性质

别名	B7H4; B7-H4; B7S1; B7h.5; B7x; FLJ22418; VTCN1; PRO1291
Uniprot No.	Q7Z7D3.1
表达区间及表达系统	Recombinant Human B7-H4 (41g)/B7-H3b Protein is expressed from HEK293 Cells with hFc tag at the C-terminal. It contains Phe29-Ala258.
分子量	Approximately 52.1 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Tris-Bis PAGE result.
纯度	> 95% as determined by SDS-PAGE and HPLC.
活性	ELISA Data: Immobilized Human B7-H4, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-B7-H4 Antibody, hFc Tag with the EC50 of 7ng/ml determined by ELISA.
内毒素	< 1.0 EU per 1µg of the protein by the LAL method.
制剂	Lyophilized from 0.22 µm 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。

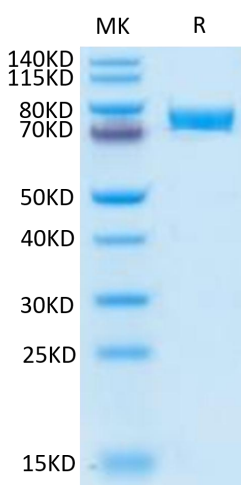
建议第一次使用时分装冻存，避免反复冻融。

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！

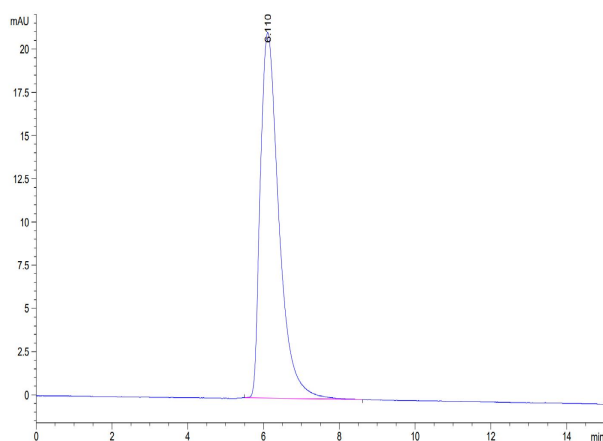
产品数据

Tris-Bis PAGE



Human B7-H4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

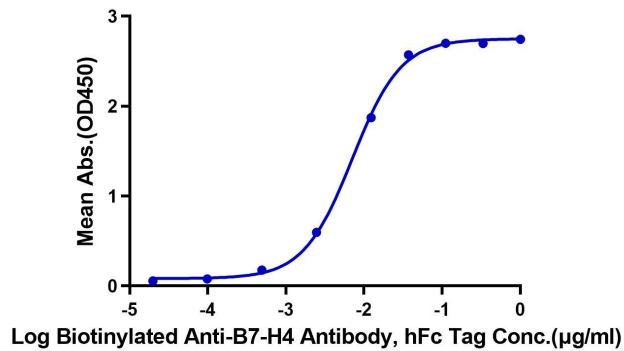
SEC-HPLC



The purity of Human B7-H4 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human B7-H4, hFc Tag ELISA
0.05 μ g Human B7-H4, hFc Tag Per Well



Immobilized Human B7-H3 (4Ig) , hFc Tag at 5 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Biotinylated Anti-B7-H3 Antibody, hFc Tag with the EC50 of 44.3ng/ml determined by ELISA.