HB220624

Recombinant Human B7-H5/Gi24/VISTA (His Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human B7-H5/Gi24/VISTA (His Tag)	93548ES20	20 μg
	93548ES60	100 μg
	93548ES76	500 μg
	93548ES80	1 mg

产品描述

VISTA (V-domain immunoglobulin suppressor of T cell activation) is an immune checkpoint receptor expressed primarily on the surface of hematopoietic cells. Specifically, VISTA is expressed on naïve CD4+ T cells and regulatory T cells. And it is up regulated in vivo on activated monocytes and dendritic cells. VISTA inhibits CD4+ and CD8+ T cell proliferation, and their production of the proinflammatory cytokines IL 2 and IFN gamma. VISTA protein is also observed on the surface of cancer cells and attenuates the anti tumor immune response enabling tumor progression. In the autoimmune disease model EAE, VISTA limits disease progression by downregulating the overactive immune system. VISTA, also known as B7 H5, PD-1H, Platelet receptor Gi24, Dies1, and SISP1, is a 55 65 kDa transmembrane glycoprotein with homology to B7 like immune co stimulatory molecules. VISTA supports the differentiation of embryonic stem cells (ESC) and enhances BMP 4 induced signaling in ESC but is also down regulated following BMP 4 exposure . It binds to BMP 4 directly and also associates with the type I BMP receptor Activin RIB/ALK 4. The identification of a binding partner for VISTA proved elusive for many years until two 2019 publications identified two distinct ligands for VISTA, VSIG-3 and PSGL-1. Both ligands are expressed on T cells and blocking antibodies to VISTA have been shown to reverse immune suppression making VISTA a potential therapeutic target for cancer.

产品性质

别名（Synonyms）	B7H5; B7-H5; VISTA; VSIR ; PD1H; PD-1H; 4632428N05Rik; C10orf54; Dies1; Gi24; PP2135; SISP1
Uniprot No.	Q9H7M9
表达区间及表达系统（Source）	Recombinant Human B7-H5/Gi24/VISTA is expressed from HEK293 with His tag at the C-terminal. It contains Phe33-Ala194.
分子量(Molecular Weight)	The protein has a predicted MW of 19 kDa. Due to glycosylation, the protein migrates to 32-70 kDa based on Tris-Bis PAGE result.
外观(Physical Appearance）	Sterile Filtered White lyophilized (freeze-dried) powder.
纯度（Purity）	> 95% as determined by SDS-PAGE and HPLC
活性（Activity）	**ELISA Data**: Immobilized Human B7-H5, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-B7-H5 Antibody, hFc Tag with the EC_{50} of 16.6ng/ml determined by ELISA.
内毒素（Endotoxin）	< 1.0 EU per 1μg of the protein by the LAL method.
制剂（Formulation）	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
复溶（Reconstitution）	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℃至-80℃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。

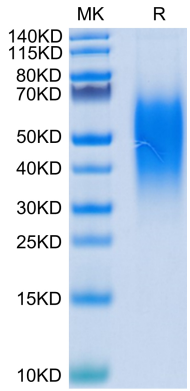
建议第一次使用时分装冻存，避免反复冻融。

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！

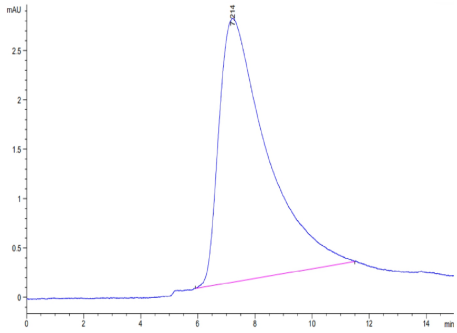
产品数据

Tris-Bis PAGE



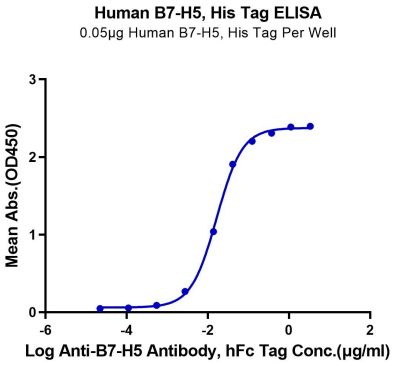
Human B7-H5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human B7-H5 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human B7-H5, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-B7-H5 Antibody, hFc Tag with the EC_{50} of 16.6ng/ml determined by ELISA.