

Recombinant Human CD2/SRBC (His Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human CD2/SRBC (His Tag)	93755ES20	20 µg
	93755ES60	100 µg
	93755ES76	500 µg
	93755ES80	1 mg

产品描述

T cell surface antigen CD2 is a type I glycoprotein belonging to the Ig superfamily and is expressed on T cells, NK cells, B cells and some antigen presenting cells. CD2 functions as an activator of T lymphocytes and thymocytes. Mature human CD2 consists of a 185 amino acid (aa) extracellular domain (ECD), a 26 aa transmembrane segment, and a 116 aa cytoplasmic tail. The extracellular domain is composed of two immunoglobulin-superfamily domains with highly-charged binding regions. Within the ECD, human CD2 shares 47% and 48% aa sequence identity with mouse and rat CD2, respectively. It interacts with both CD58 and CD59 directly to activate T cells and their adhesion pathways. The conformational flexibility of the CD2 molecule affects function through the conformational status of the adhesive ligands. Together with PSTPIP1, CD2 works to regulate T cell activation. These two proteins colocalize with a second CD2-binding protein to signal immunological synapse formation in T cells. CD2 is an adhesion molecule present on the cell surface of T cells, natural killer (NK) cells, and B cells; and its interaction with CD58 on antigen-presenting cells plays an important role in their immune reaction. CD2-CD58 interactions play a critical role in the anti-tumor immune response, and restoration of this signaling is an important strategy for anti-tumor therapy.

产品性质

别名 (Synonyms)	T11; CD2; SRBC; LFA-2; LFA-3 receptor
Uniprot No.	P06729
表达区间及表达系统 (Source)	Recombinant Human CD2/SRBC Protein is expressed from HEK293 Cells with His tag at the C-terminal. It contains Lys25-Asp209.
分子量(Molecular Weight)	The protein has a predicted MW of 22.3 kDa. Due to glycosylation, the protein migrates to 40-50 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)	SPR Data: Human CD58, hFc Tag captured on CM5 Chip via Protein A can bind Human CD2, His Tag with an affinity constant of 440 nM as determined in SPR assay (Biacore T200).
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°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。

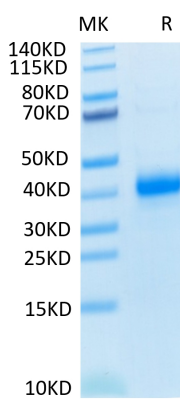
建议第一次使用时分装冻存，避免反复冻融。

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！

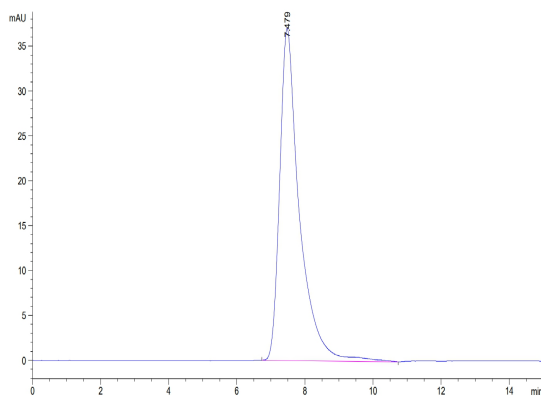
产品数据

Tris-Bis PAGE



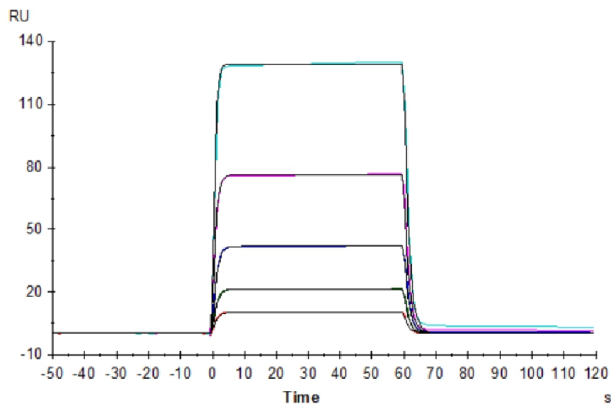
Human CD2 on Tris-Bis PAGE under reduced conditions.
The purity is greater than 95%.

SEC-HPLC



The purity of Human CD2 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human CD58, hFc Tag captured on CM5 Chip via Protein A can bind Human CD2, His Tag with an affinity constant of 440 nM as determined in SPR assay (Biacore T200).