

Recombinant Human SIRP alpha/CD172a (His Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human SIRP alpha/CD172a (His Tag)	93362ES20	20 µg
	93362ES60	100 µg
	93362ES76	500 µg
	93362ES80	1 mg

产品描述

Signal regulatory protein alpha (SIRP alpha, designated CD172a), also called SHPS-1 (SHP substrate 1) and previously, MyD-1 (Myeloid/Dendritic-1), is a monomeric ~90 kDa type I transmembrane glycoprotein that belongs to the SIRP/SHPS (CD172) family of the immunoglobulin superfamily. Human SIRP alpha ECD shares 61%, 60%, 71%, 72% and 73% aa identity with mouse, rat, porcine, bovine and equine SIRP alpha, respectively; it shares 84% and 76% aa identity with human SIRP beta 1 and SIRP gamma, respectively. SIRP alpha engagement generally produces a negative regulatory signal. Low SIRP alpha recognition of CD47, which occurs on aged erythrocytes or platelets or xenogenic cells, promotes clearance of CD47^{low} cells from circulation. SIRP alpha recognition of surfactants SP-A and SP-D in the lung can inhibit alveolar macrophage cytokine production. The CD47 integrin-SIRP alpha interaction is reported to promote macrophage fusion during osteoclastogenesis.

产品性质

别名 (Synonyms)	CD172a, BIT, MFR, MYD1, MYD-1, P84, PTPNS1, SHPS1, SHPS-1, SIRP alpha, SIRPA
Uniprot No.	P78324-1
表达区间及表达系统 (Source)	HEK293 Cells-derived Human SIRP alpha / CD172a Protein, Glu31-Arg370 with His tag at the C-terminal
分子量(Molecular Weight)	Approximately 38.1 kDa. Due to glycosylation, the protein migrates to 45-65 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 1.ELISA Data: Immobilized Human SIRP alpha, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC ₅₀ of 38.1 ng/mL determined by ELISA.
活性 (Activity)	2.SPR Data: Anti-SIRP alpha Antibody captured on CM5 Chip via Protein A can bind Human Sirpa, His Tag with an affinity constant of 2.81 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 1mg/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℃，在未开封状态下保存 3-6 个月。复溶后，2-8℃ 保存 2-7 天。

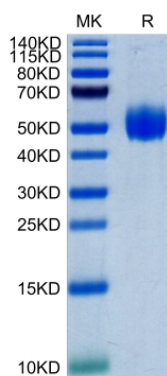
建议第一次使用时分装冻存，避免反复冻融。

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！

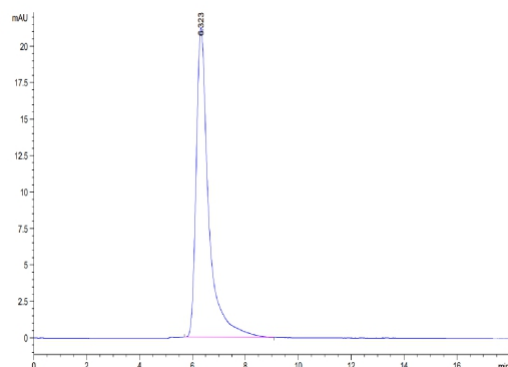
产品数据

Tris-Bis PAGE



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

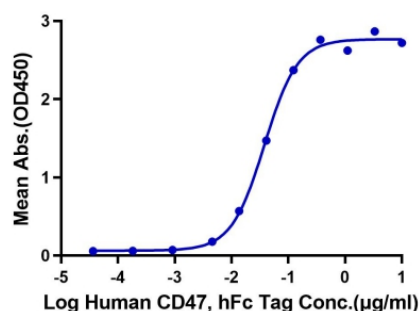
SEC-HPLC



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

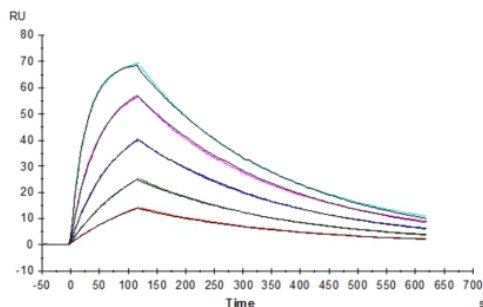
ELISA Data

Human SIRP alpha, His Tag ELISA
0.05μg Human SIRP alpha, His Tag Per Well



Immobilized Human SIRP alpha, His Tag at 0.5 μg/mL (100 μL/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC₅₀ of 38.1 ng/mL determined by ELISA.

SPR Data



Anti-SIRP alpha Antibody captured on CM5 Chip via Protein A can bind Human Sirpa, His Tag with an affinity constant of 2.81 nM as determined in SPR assay (Biacore T200).