

Recombinant Human CD47 (His Tag)

产品信息

产品名称	产品编号	规格
	93361ES20	20 μg
	93361ES60	100 μg
Recombinant Human CD47 (His Tag)	93361ES76	500 μg
	93361ES80	1 mg

产品描述

CD47, also known as Integrin-Associated Protein (IAP) and OA3, is a 40-60 kDa variably glycosylated atypical member of the immunoglobulin superfamily. Human CD47 is an integral membrane protein that consists of a 123 amino acid (aa) extracellular domain (ECD) with a single Ig-like domain, five membrane-spanning regions with short intervening loops, and a 34 aa C-terminal cytoplasmic tail. Alternate splicing of human CD47 generates additional isoforms with deletions in the cytoplasmic tail. Within the N-terminal ECD, human CD47 shares 63% aa sequence identity with mouse and rat CD47. A portion of the N-terminal ECD can by shed from smooth muscle cells by MMP-2-mediated proteolysis. The ubiquitously expressed CD47 binds to SIRP family members on macrophages, neutrophils, and T cells. These interactions prevent macrophage-mediated clearance of healthy CD47-expressing cells and promote immune cell transmigration across the vascular endothelium. The CD47-SIRP alpha interaction is species specific, and this lack of cross-species interaction has been implicated in xenotransplantation rejection.

产品性质

别名(Synonyms)	CD47 glycoprotein; CD47 molecule; CD47; IAP; OA3; MER6	
Uniprot No.	Q08722-1	
表达区间及表达系统(Source)	Recombinant Human CD47 is expressed from HEK293 Cells with His tag at the C-terminal. It	
	contains Gln19-Pro139.	
分子量(Molecular Weight)	The protein has a predicted MW of 14.5 kDa. Due to glycosylation, the protein migrates to	
	45-60 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)	1.ELISA Data: Immobilized Human CD47, His Tag at $2\mu g/ml$ ($100\mu l/well$) on the plate. Dose	
	response curve for Human SIRP alpha, hFc Tag with the EC50 of 28.9ng/ml determined by	
	ELISA.	
	2.SPR Data: Human CD47, His Tag captured on CM5 Chip via Anti-His Antibody can bind	
	Human Sirpa, hFc Tag with an affinity constant of 18.9nM 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 $\mu g/mL$ is	
	recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized	
	protein in distilled water.	

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运输与保存方法

冰袋运输。-20℃至-80℃保存,一年有效期。

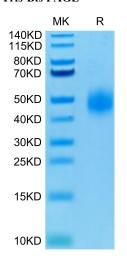
复溶后,-20 至 -80°C,在未开封状态下保存 3-6 个月。复溶后,2-8°C 保存 2-7 天。建议第一次使用时分装冻存,避免反复冻融。

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!

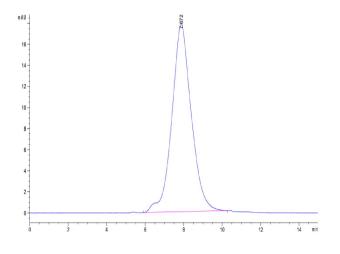
产品数据

Tris-Bis PAGE



Human CD47 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC



The purity of Human CD47 is greater than 95% as determined by SEC-HPLC.

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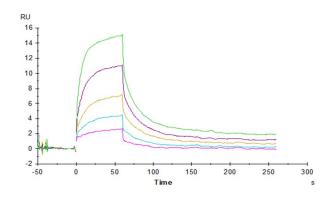


Human CD47, His Tag ELISA 0.2µg Human CD47, His Tag Per Well

2.5 (0240) 1.5-0.0 - 4 -3 -2 -1 0 1 Log Human SIRP alpha, hFc Tag Conc.(µg/ml)

Immobilized Human CD47, His Tag at $2\mu g/ml$ (100 $\mu l/well$) on the plate. Dose response curve for Human SIRP alpha, hFc Tag with the EC₅₀ of 28.9ng/ml determined by ELISA.

SPR Data



Human CD47, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human Sirpa, hFc Tag with an affinity constant of 18.9nM as determined in SPR assay (Biacore T200).

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