

Recombinant Human Fc gamma RIIA/CD32a (H167)(His-Avi Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human Fc gamma RIIA/CD32a (H167)(His-Avi Tag)	93441ES60	100 µg
	93441ES76	500 µg
	93441ES80	1 mg

产品描述

Receptors for the Fc region of IgG (Fc gamma R) are members of the Ig superfamily that function in the activation or inhibition of immune responses. Three classes of human Fc gamma Rs: RI (CD64), RII (CD32), and RIII (CD16), which generate multiple isoforms, are recognized. The activating-type receptor either has or associates non-covalently with an accessory subunit (FcR gamma or zeta chain) that has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain. In contrast, the inhibitory receptor (Fc gamma RIIb) has a built-in immunoreceptor tyrosine-based inhibitory motif (ITIM) in its own cytoplasmic domain. Fc gamma RI is a high-affinity receptor that binds monomeric IgG, both Fc gamma RII and RIII are low-affinity receptors that bind aggregated or immune complexed IgG (IC). The extracellular domain of human Fc gamma RIIA shares approximately 90% amino acid sequence homology with human Fc gamma RIIb and Fc gamma RIIc. Fc gamma RIIA is expressed on many immune cell types (macrophage, neutrophil, eosinophils, platelets, dendritic cells and Langerhan cells) where inhibitory ITIM-bearing receptors may also be coexpressed and co-engaged by specific ligands.

产品性质

别名 (Synonyms)	Fc gamma RIIA; FCG2; FCGR2; FCGR2A; FCGR2A1; FcγRIIA; FCRIIA; fcRII-a; FCG2; CD32A
Uniprot No.	P12318-1
表达区间及表达系统 (Source)	Recombinant Human Fc gamma RIIA/CD32a (H167) Protein is expressed from HEK293 Cells with His tag and Avi tag at the C-terminal. It contains Ala36-Ile218(H167).
分子量(Molecular Weight)	The protein has a predicted MW of 23.2 kDa. Due to glycosylation, the protein migrates to 30-40 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: Rituximab captured on CM5 Chip via Protein A can bind Human Fc gamma RIIA (H167), His-Avi Tag with an affinity constant of 0.606 µM as determined in SPR assay.
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。

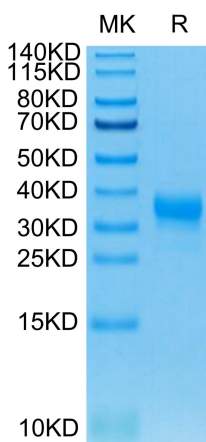
建议第一次使用时分装冻存，避免反复冻融。

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！

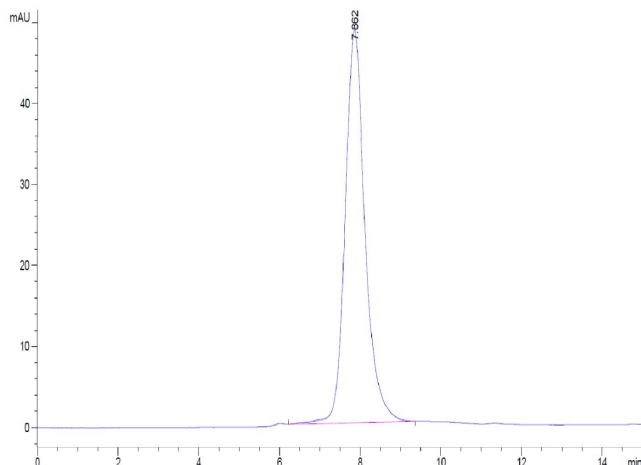
产品数据

Tris-Bis PAGE



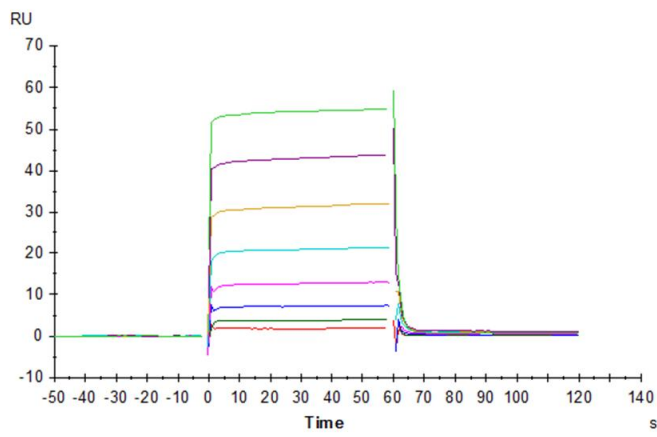
Human Fc gamma RIIA/CD32a (H167) on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC



The purity of Human Fc gamma RIIA/CD32a (H167) is greater than 95% as determined by SEC-HPLC.

SPR Data



Rituximab captured on CM5 Chip via Protein A can bind Human Fc gamma RIIA (H167), His-Avi Tag with an affinity constant of 0.606 μ M as determined in SPR assay (Biacore T200).