

Recombinant Human Fc gamma RI/CD64 (His-Avi Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human Fc gamma RI/CD64 (His-Avi Tag)	93444ES60	100 µg
	93444ES76	500 µg
	93444ES80	1 mg

产品描述

Receptors for the Fc region of IgG (Fc gamma Rs) are members of the Ig superfamily that function in the activation or inhibition of immune responses such as degranulation, phagocytosis, ADCC (antibody-dependent cellular toxicity), cytokine release, and B cell proliferation. The Fc gamma Rs have been divided into three classes based on close relationships in their extracellular domains; these groups are designated Fc gamma RI (also known as CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Each group may be encoded by multiple genes and exist in different isoforms depending on species and cell type. The CD64 proteins are high affinity receptors capable of binding monomeric IgG, whereas the CD16 and CD32 proteins bind IgG with lower affinities only recognizing IgG aggregates surrounding multivalent antigens. Fc gamma Rs that deliver an activating signal either have an intrinsic immunoreceptor tyrosine-based activation motif (ITAM) within their cytoplasmic domains or associate with one of the ITAM-bearing adapter subunits, Fc R gamma or zeta. The only inhibitory member in human and mouse, Fc gamma RIIB, has an intrinsic cytoplasmic immunoreceptor tyrosine-based inhibitory motif (ITIM). The coordinated functioning of activating and inhibitory receptors is necessary for successful initiation, amplification, and termination of immune responses.

产品性质

别名 (Synonyms)	CD64; CD64a; Fc gamma RI; FCG1; Fc-gamma RIA; FCGR1; FcgRI; FCRI; FcRIA; FLJ18345; FCGR1A; IGFR1; Fcr; Fcgr; FCE1A; FcERI
Uniprot No.	P12314-1
表达区间及表达系统 (Source)	Recombinant Human Fc gamma RI/CD64 Protein is expressed from HEK293 Cells with His tag and Avi tag at the C-terminal. It contains Gln16-Pro288.
分子量(Molecular Weight)	The protein has a predicted MW of 33.5 kDa. Due to glycosylation, the protein migrates to 50-70 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)	SPR Data: Human Fc gamma RI, His Tag captured on CM5 Chip via Anti-His Antibody can bind Herceptin, hFc Tag with an affinity constant of 11.3nM 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。

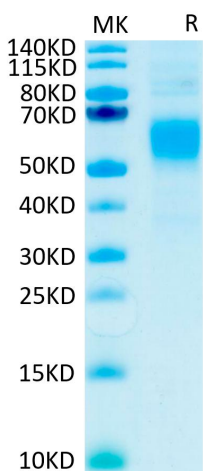
建议第一次使用时分装冻存，避免反复冻融。

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！

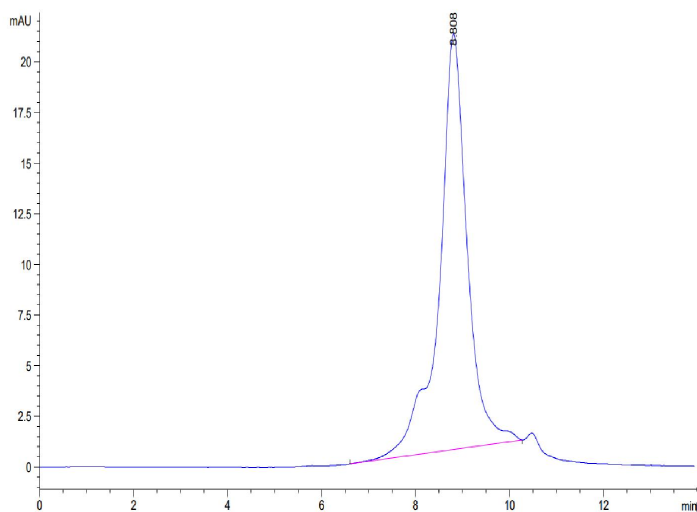
产品数据

Tris-Bis PAGE



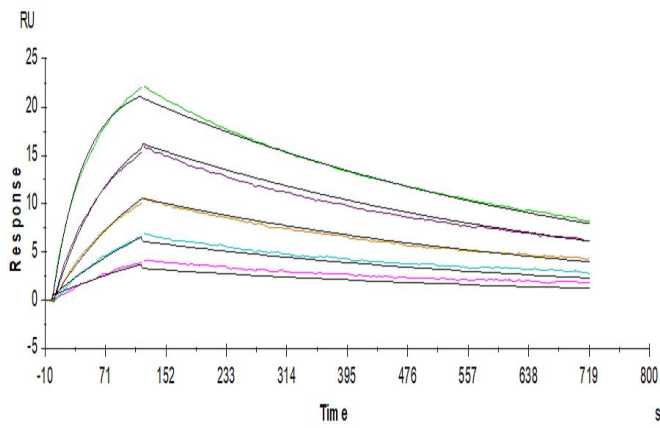
Human Fc gamma RI on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC



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

SPR Data



Human Fc gamma RI, His Tag captured on CM5 Chip via Anti-His Antibody can bind Herceptin, hFc Tag with an affinity constant of 11.3nM as determined in SPR assay (Biacore T200).