

Recombinant Human Fc gamma RIIIB/CD16b (NA2) (His-Avi Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human Fc gamma RIIIB/CD16b (NA2) (His-Avi Tag)	93446ES60	100 µg
	93446ES76	500 µg
	93446ES80	1 mg

产品描述

Receptors for the Fc region of IgG (Fc gamma R) are members of the Ig superfamily. Based on their genetic organization and molecular structure, three classes of human Fc gamma Rs: RI (CD64), RII (CD32), and RIII (CD16), which generate multiple isoforms, are recognized. These receptors function in the activation or inhibition of immune responses. 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 RIIIB) 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 IgG in the form of immune complexes. Two genes for human Fc gamma RIII, A and B, encoding a transmembrane receptor and a glycosylphosphatidylinositol (GPI) anchored protein, respectively, have been identified. Three allelic variants of Fc gamma RIIIB, NA-1, NA-2, and SH, exist. A soluble form of Fc gamma RIIIB corresponding to the extracellular region of the receptor is produced by proteolytic cleavage and circulates in plasma and other body fluids. The extracellular domains of Fc gamma RIIIA and B share 97% amino acid sequence homology.

产品性质

别名 (Synonyms)	CD16; Fc gamma RIIIB; FCG3; FCGR3B; FcgRIIIB; FCRIIIB; IGFR3; CD16b (NA2); CD16B; FCG3B; FCG3; FCGR3; FCR-10
Uniprot No.	O75015-1
表达区间及表达系统 (Source)	Recombinant Human Fc gamma RIIIB/CD16b (NA2) Protein is expressed from HEK293 Cells with His tag and Avi tag at the C-terminal. It contains Gly17-Ser200. The CD16b NA1 differ with the CD16b NA2 in AA36, 65, 82, and 106. The CD16b NA1 form carries R36, N65, D82, and V106, while the CD16b NA2 form carries S36, S65, N82, and I106
分子量 (Molecular Weight)	The protein has a predicted MW of 23.7 kDa. Due to glycosylation, the protein migrates to 47-53 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 RIIIB, His Tag captured on CM5 Chip via anti-His antibody can bind Rituximab, hFc Tag with an affinity constant of 1.3µM 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。

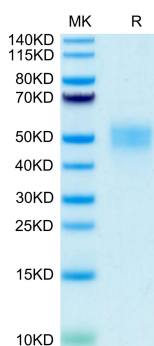
建议第一次使用时分装冻存，避免反复冻融。

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！

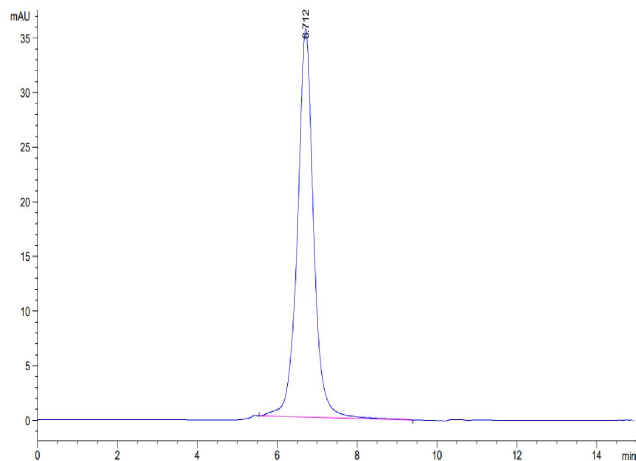
产品数据

Tris-Bis PAGE



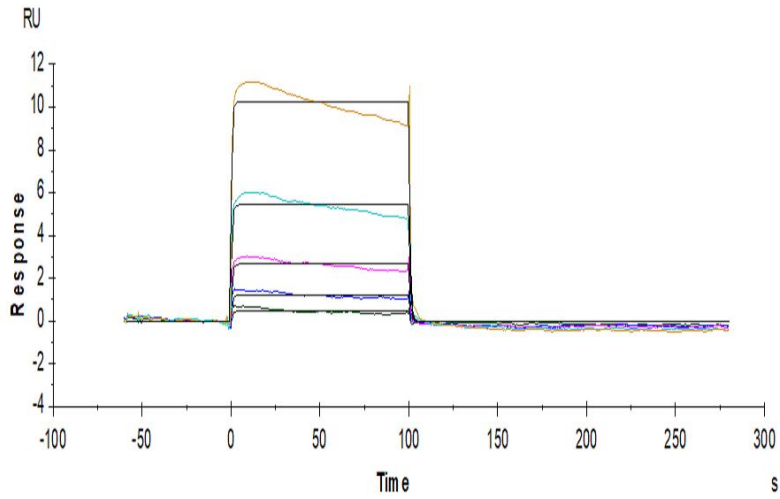
Human Fc gamma RIIIB/CD16b on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC



The purity of Human Fc gamma RIIIB/CD16b is greater than 95% as determined by SEC-HPLC.

SPR Data



Human Fc gamma RIIIB, His Tag captured on CM5 Chip via anti-His antibody can bind Rituximab, hFc Tag with an affinity constant of 1.3 μ M as determined in SPR assay.