

## Recombinant Human Fc gamma RIIIB / CD16b (NA1) (His Tag)

### 产品信息

产品名称	产品编号	规格
Recombinant Human Fc gamma RIIIB / CD16b (NA1) (His Tag)	93443ES60	100 µg
	93443ES76	500 µg
	93443ES80	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. 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. Whereas Fc gamma RIIIA is expressed on most effector cells of the immune system including macrophage, monocyte, NK cells, mast cells, eosinophils, dendritic cells and Langerhans cells, Fc gamma RIIIB is selectively expressed in neutrophils and eosinophils. Soluble Fc gamma RIIIB has a regulatory role in inflammatory processes.

### 产品性质

别名 (Synonyms)	CD16, FCG3, FCGR3B, FCRIIIB, IGFR3, CD16b (NA2), FCG3B, FCG3, FCGR3, FCR-10
Uniprot No.	AAA35881.1
表达区间及表达系统 (Source)	Recombinant Human Fc gamma RIIIB / CD16b (NA1) Protein is expressed from HEK293 Cells with His tag at the C-terminal. It contains Gly17-Ser200.
分子量(Molecular Weight)	Approximately 22 kDa. Due to glycosylation, the protein migrates to 48-55 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)	<b>SPR Data:</b> Rituximab captured on CM5 Chip via Protein A can bind Human Fc gamma RIIIB (NA1), His Tag with an affinity constant of 0.117 µM 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 8% 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。

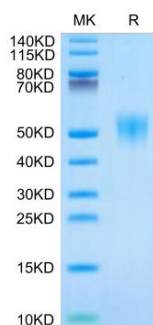
建议第一次使用时分装冻存，避免反复冻融。

## 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！

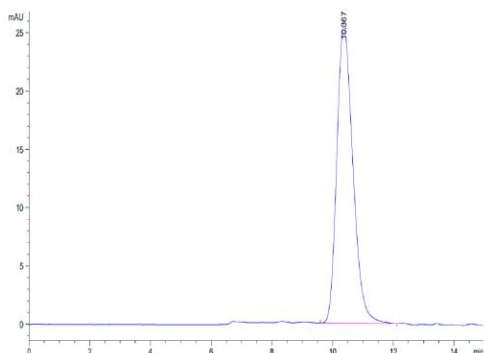
## 产品数据

### Tris-Bis PAGE



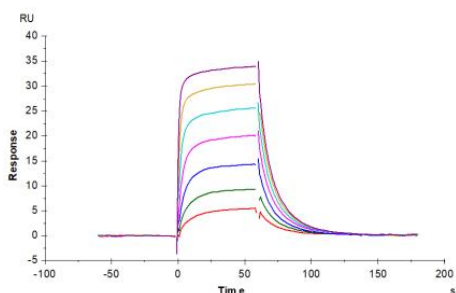
Human Fc gamma RIIIB/CD16b (NA1) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human Fc gamma RIIIB/CD16b (NA1) is greater than 95% as determined by SEC-HPLC.

### SPR Data



Rituximab captured on CM5 Chip via Protein A can bind Human Fc gamma RIIIB (NA1), His Tag with an affinity constant of 0.117  $\mu\text{M}$  as determined in SPR assay (Biacore T200).