

## Recombinant Human Fc gamma RIIIA/CD16a (V176) (His-Avi Tag)

### 产品信息

产品名称	产品编号	规格
Recombinant Human Fc gamma RIIIA/CD16a (V176) (His-Avi Tag)	93449ES25	25 µg
	93449ES60	100 µg
	93449ES76	500 µg
	93449ES80	1 mg

### 产品描述

Fc gamma RIIIA/CD16a is a low/intermediate affinity receptor for polyvalent immune-complexed IgG. It is involved in phagocytosis, secretion of enzymes and inflammatory mediators, antibody-dependent cytotoxicity, and clearance of immune complexes. In humans, a single nucleotide polymorphism (T230A) creates high binding (176V) and low binding (176F) forms that may influence susceptibility to autoimmune diseases or response to therapeutic IgG antibodies. Fc gamma RIIIA surface expression requires interaction with an accessory chain, either the common gamma -chain or CD3 zeta. Glycosylation patterns, electrophoretic mobility, and binding affinity appear to differ between NK cell and monocyte Fc gamma RIIIA. Shed forms of both Fc gamma RIIIA and Fc gamma RIIIB can be generated by proteolytic cleavage and retain binding activity. Shedding from monocytes and macrophages can be triggered by cell activation or phagocytosis. Soluble Fc gamma RIII circulates in normal plasma and is elevated in rheumatoid arthritis and in coronary artery diseases.

### 产品性质

别名	Fc gamma RIIIA; FCGR3; FCGR3A; FCGRIII; FcγRIIIa; FcR-10; CD16A; FCG3; IGFR3; FcRIIIa; FcRIII; CD16; IMD20
Accession	AAH17865
表达区间及表达系统	Recombinant Human Fc gamma RIIIA/CD16a (V176) Protein is expressed from HEK293 Cells with His tag and Avi tag at the C-terminal. It contains Gly17-Gln208.
分子量	Approximately 24.7 kDa. Due to glycosylation, the protein migrates to 50-55 kDa based on Tris-Bis PAGE result.
纯度	> 95% as determined by SDS-PAGE and HPLC.
活性	<b>ELISA Data:</b> Immobilized Human Fc gamma RIIIA (V176) , His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-Fc gamma RIIIA Antibody, hFc Tag with the EC50 of 0.09µg/ml determined by ELISA. <b>SPR Data:</b> Human Fc gamma RIIIA (V176) , His Tag captured on CM5 Chip via Anti-His Antibody can bind Herceptin, hFc Tag with an affinity constant of 67.3nM as determined in SPR assay (Biacore T200).
内毒素	< 1.0 EU per 1µg of the protein by the LAL method.
制剂	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
复溶	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。

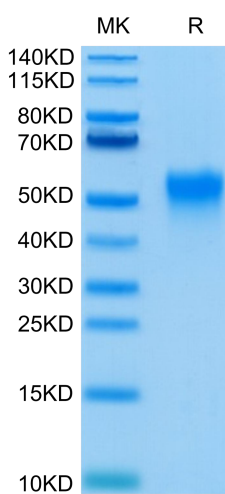
建议第一次使用时分装冻存，避免反复冻融。

## 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！

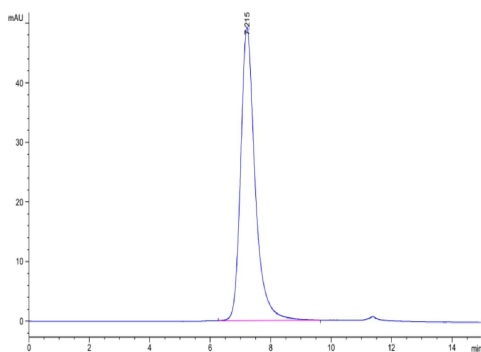
## 产品数据

### Tris-Bis PAGE



Human Fc gamma RIIIA (V176) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

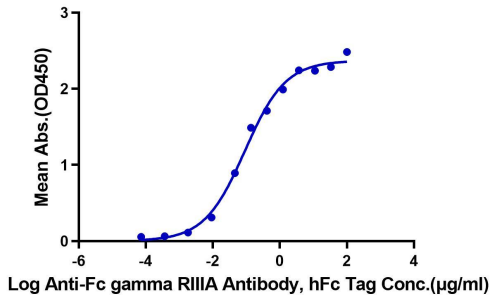


The purity of Fc gamma RIIIA (V176) is greater than 95% as determined by SEC-HPLC.

## ELISA Data

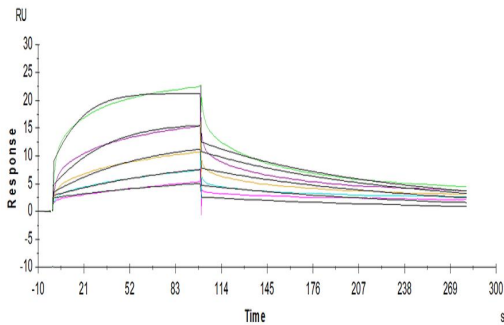
### Human Fc gamma RIIIA (V176), His Tag ELISA

0.1 $\mu$ g Human Fc gamma RIIIA (V176), His Tag Per Well



Immobilized Human Fc gamma RIIIA (V176) , His Tag at 1 $\mu$ g/ml (100 $\mu$ l/Well) on the plate. Dose response curve for Anti-Fc gamma RIIIA Antibody, hFc Tag with the EC50 of 0.09 $\mu$ g/ml determined by ELISA.

## SPR Data



Human Fc gamma RIIIA (V176) , His Tag captured on CM5 Chip via Anti-His Antibody can bind Herceptin, hFc Tag with an affinity constant of 67.3nM as determined in SPR assay (Biacore T200).