

## Recombinant Human Her3/ErbB3 (hFc Tag)

### 产品信息

| 产品名称                                   | 产品编号      | 规格     |
|----------------------------------------|-----------|--------|
| Recombinant Human Her3/ErbB3 (hFc Tag) | 93099ES20 | 20 µg  |
|                                        | 93099ES60 | 100 µg |
|                                        | 93099ES76 | 500 µg |
|                                        | 93099ES80 | 1 mg   |

### 产品描述

ErbB3, also called Her3 (human epidermal growth factor receptor 3), is a type I membrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors. ErbB family members serve as receptors for the epidermal growth factor (EGF) family of growth factors. Among ErbB family members, ErbB3 is unique in that it contains a defective kinase domain. ErbB3 is expressed in keratinocytes, melanocytes, skeletal muscle cells, embryonic myoblasts and Schwann cells. Monomeric ErbB3 serves as a low affinity receptor for the heregulins (HRG). ErbB3 heterodimerizes with ErbB2 to form a high affinity receptor complex. In contrast, ErbB3 homodimerization or heterodimerization with ErbB4 forms a low affinity heregulin-binding complex. Because ErbB3 contains a defective kinase domain, the kinase domain of ErbB2 is responsible for initiating the tyrosine phosphorylation signal through the heterodimeric receptor. It has been found that a discrete three amino acid signal in the ErbB3 cytoplasmic domain is critical for transactivation of ErbB2. The cytoplasmic domain of ErbB3 also contains six consensus binding motifs for the SH2 domain of the regulatory p85 subunit of phosphoinositide 3-kinase (PI 3-kinase, PI3K) as well as one proline-rich consensus binding motif for the SH3 domain of p85. Human ErbB3 consists of 1342 amino acids (aa) with a 19 aa signal sequence, a 624 aa extracellular domain, a 21 aa transmembrane region, and a 678 aa cytoplasmic domain. ErbB3 appears to play roles in development, cancer, communication at the neuromuscular junction and regulation of cell growth and differentiation.

### 产品性质

|                         |                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 别名 (Synonyms)           | ErbB3; ErbB-3; HER3; HER3c-erbB-3; LCCS2; MDA-BF-1; MGC88033; p180-ErbB3; p45-sErbB3; p85-sErbB3; ERBB3                                                                                                          |
| Uniprot No.             | P21860                                                                                                                                                                                                           |
| 表达区间及表达系统 (Source)      | Recombinant Human Her3/ErbB3 Protein is expressed from HEK293 Cells with hFc tag at the C-terminal. It contains Ser20-Thr643.                                                                                    |
| 分子量(Molecular Weight)   | The protein has a predicted MW of 95.4 kDa. Due to glycosylation, the protein migrates to 110-120 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>ELISA Data:</b> Immobilized Human Her3, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-Her3 Antibody, hFc Tag with the EC50 of 13.5ng/ml determined by ELISA.       |
| 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。

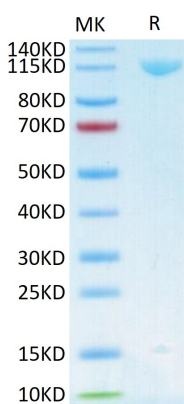
建议第一次使用时分装冻存，避免反复冻融。

## 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！

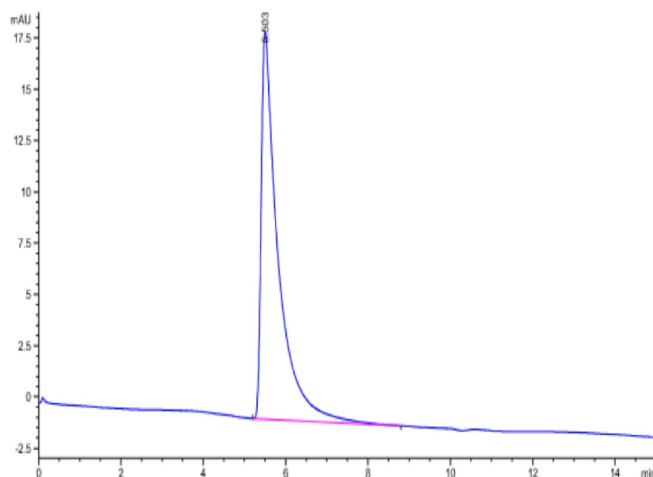
## 产品数据

### Tris-Bis PAGE



Human Her3 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

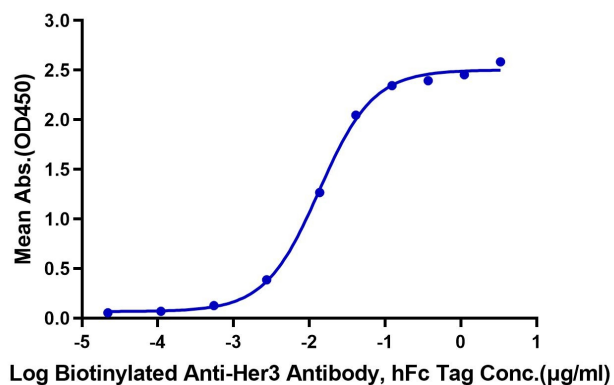
### SEC-HPLC



The purity of Human Her3 is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Human Her3, hFc Tag ELISA 0.05 $\mu$ g Human Her3, hFc Tag Per Well



Immobilized Human Her3, hFc Tag at 0.5 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Anti-Her3 Antibody, hFc Tag with the EC50 of 13.5ng/ml determined by ELISA.