

# Human Her3/ErbB3 Protein

Cat. No. HER-HM203



## Description

|                  |                                                                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Source           | Recombinant Human Her3/ErbB3 Protein is expressed from HEK293 with hFc tag at the C-Terminus.                                        |
|                  | It contains Ser20-Thr643.                                                                                                            |
| Accession        | P21860                                                                                                                               |
| Molecular Weight | The protein has a predicted MW of 95.4 kDa. Due to glycosylation, the protein migrates to 110-120 kDa based on Bis-Tris PAGE result. |
| Endotoxin        | Less than 1 EU per µg by the LAL method.                                                                                             |
| Purity           | > 95% as determined by Bis-Tris PAGE                                                                                                 |
|                  | > 95% as determined by HPLC                                                                                                          |

## Formulation and Storage

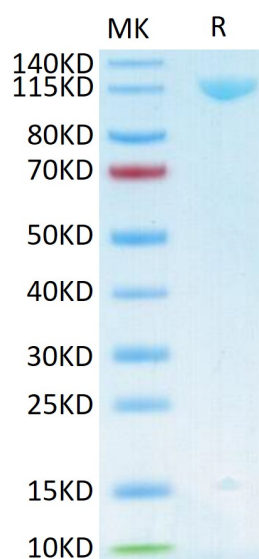
|                |                                                                                                                                                                                                                         |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation    | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.                                                                                          |
| Reconstitution | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.                                                                                             |
| Storage        | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Her3, also called ErbB3, is a type I membrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors. Her3 is expressed in keratinocytes, melanocytes, skeletal muscle cells, embryonic myoblasts and Schwann cells. Monomeric Her3 serves as a low affinity receptor for the heregulins (HRG).

## Assay Data

### Bis-Tris PAGE



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

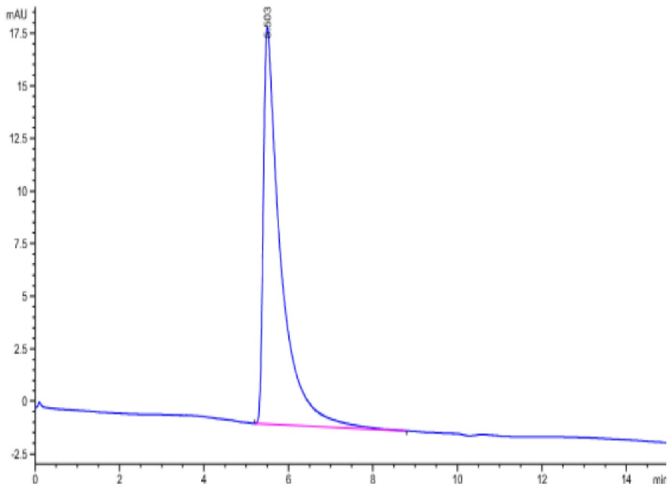
### SEC-HPLC

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Assay Data

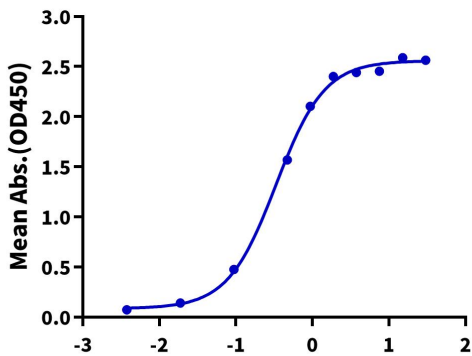


The purity of Human Her3 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human Her3, hFc Tag ELISA

0.5µg Human Her3, hFc Tag Per Well

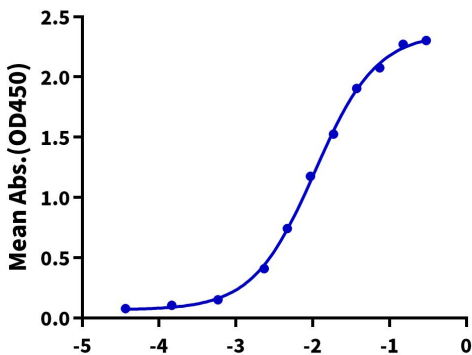


Immobilized Human Her3, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human NRG1 Beta 1, hFc Tag with the EC50 of 0.33µg/ml determined by ELISA (QC Test).

ELISA Data

Human Her3, hFc Tag ELISA

0.1µg Human Her3, hFc Tag Per Well



Immobilized Human Her3, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-HER3 Antibody, hFc Tag with the EC50 of 10.7ng/ml determined by ELISA.