

# Human Her3/ErbB3 Protein, Ultra Low Endotoxin

Cat. No. HER-HM103-UL

## Description

<b>Source</b>	Recombinant Human Her3/ErbB3 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ser20-Thr643.
<b>Accession</b>	P21860-1
<b>Molecular Weight</b>	The protein has a predicted MW of 70.27 kDa. Due to glycosylation, the protein migrates to 90-110 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

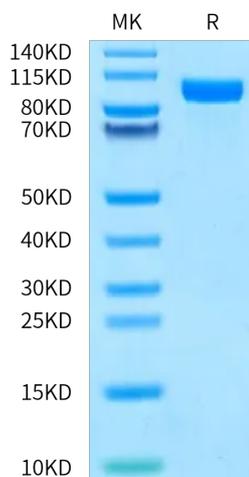
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-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).

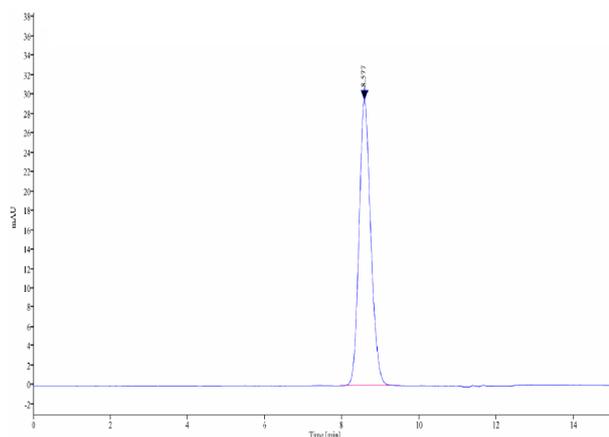
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



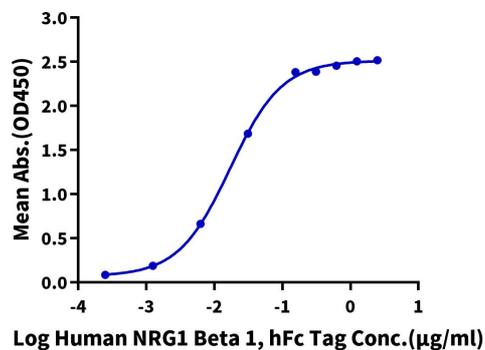
The purity of Human Her3 is greater than 95% as determined by SEC-HPLC.

## Assay Data

## ELISA Data

**Human Her3, His Tag ELISA**

0.2µg Human Her3, His Tag Per Well

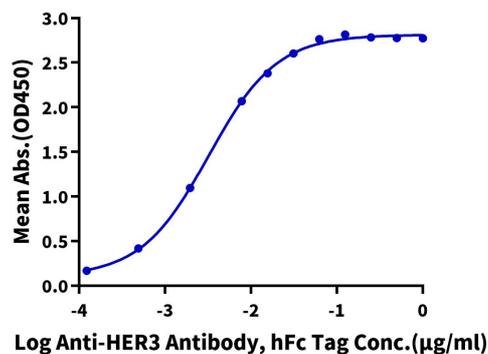


Immobilized Human Her3, His Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Human NRG1 Beta 1, hFc Tag (Cat. NRG-HM201) with the EC50 of 17.1 ng/ml determined by ELISA.

## ELISA Data

**Human Her3, His Tag ELISA**

0.05µg Human Her3, His Tag Per Well



Immobilized Human Her3, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-HER3 Antibody, hFc Tag with the EC50 of 3.2 ng/ml determined by ELISA.