

# Biotinylated Human Her3/ErbB3 Protein

Cat. No. HER-HM403B

## Description

Source	Recombinant Biotinylated Human Her3/ErbB3 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Ser20-Thr643.
Accession	P21860-1
Molecular Weight	The protein has a predicted MW of 71.6 kDa. Due to glycosylation, the protein migrates to 90-100 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis 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	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days 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). Mutation leads to a deletion of exons 2-7 of the EGFR gene and renders the mutant receptor incapable of binding any known ligand.

## Assay Data

### Tris-Bis PAGE



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

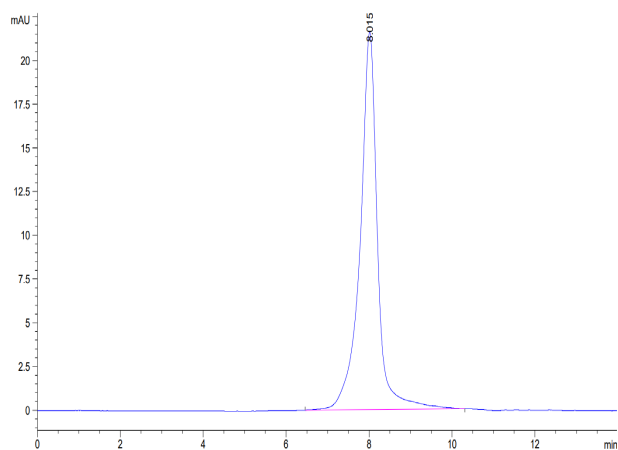
### SEC-HPLC

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### Assay Data



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

Biotinylated Human Her3/ErbB3 Protein

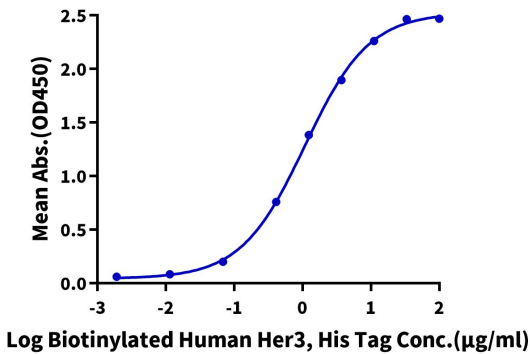
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Assay Data

ELISA Data

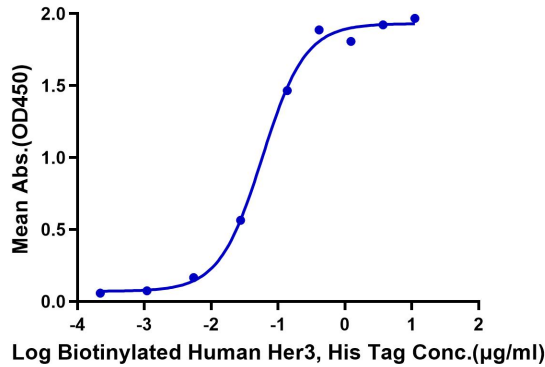
**Biotinylated Human Her3, His Tag ELISA**  
0.5µg Human NRG1 Beta 1, hFc Tag Per Well



Immobilized Human NRG1 Beta 1, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Her3, His Tag with the EC50 of 1.09µg/ml determined by ELISA.

ELISA Data

**Biotinylated Human Her3, His Tag ELISA**  
0.2µg Anti-HER3 Antibody, hFc Tag Per Well



Immobilized Anti-Her3 Antibody, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylatd Human Her3, His Tag with the EC50 of 58.1ng/ml determined by ELISA.