

# Human Her4/ErbB4 Protein

Cat. No. HER-HM4B4

## Description

<b>Source</b>	Recombinant Human Her4/ErbB4 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gln26-Pro651.
<b>Accession</b>	Q15303-1
<b>Molecular Weight</b>	The protein has a predicted MW of 72.7 kDa. Due to glycosylation, the protein migrates to 80-110 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

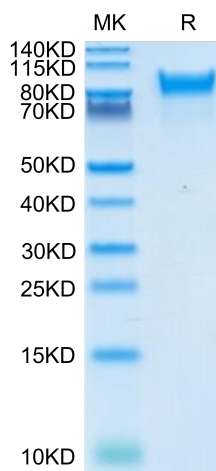
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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

Her4, a member of the EGF receptor family, plays a variety of roles in physiological and pathological states. Genetic studies have indicated a link between Her4 and type 2 diabetes and obesity. Her4 may play an important role in glucose homeostasis and lipogenesis. Her4 deficiency-related obesity and adipose tissue inflammation may contribute to the development of MetS.

## Assay Data

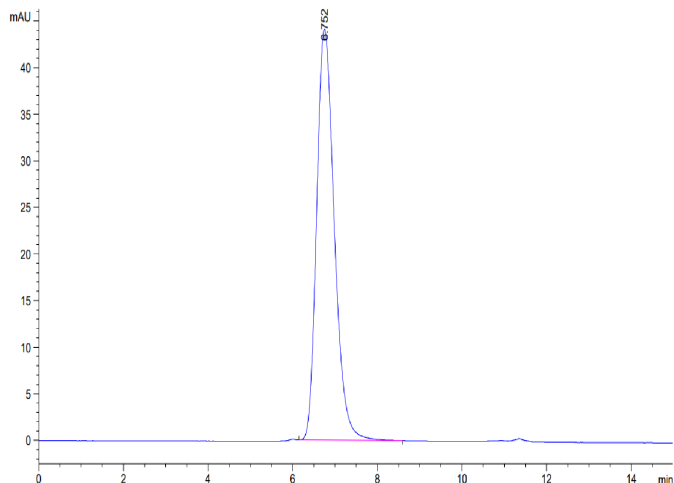
### Tris-Bis PAGE



Human Her4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

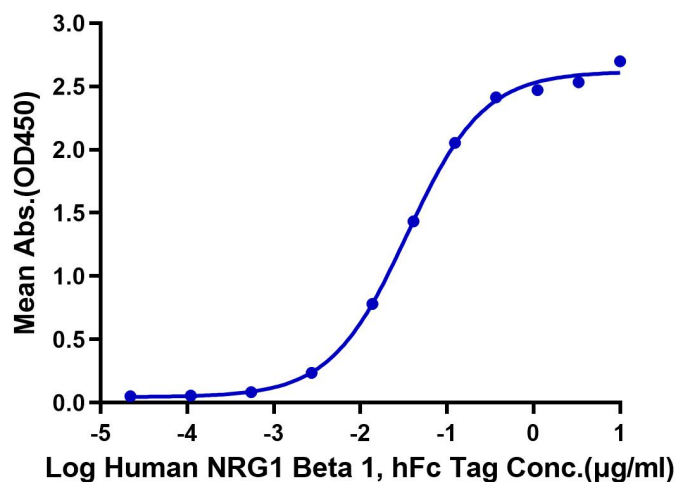
Assay Data



The purity of Human Her4 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human Her4, His Tag ELISA**  
0.1µg Human Her4, His Tag Per Well



Immobilized Human Her4 at 1µg/ml (100µl/well) on the plate. Dose response curve for Human NRG1 Beta 1, hFc Tag with the EC50 of 34.7ng/ml determined by ELISA.