

# Human ErbB4/HER4 (His & Fc Tag) recombinant protein



Catalog Number: 503621

## General Information

### Gene Name Synonym

Proto-oncogene-like protein c-ErbB-4; Tyrosine kinase-type cell surface receptor HER4; p180erbB4; ERBB4 intracellular domain; s80HER4

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Pro 651) of human ErbB4 precursor (NP\_001036064.1) was fused with the C-terminal His-tagged Fc region of human IgG1 at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to bind biotinylated human Fc-NRG1 (isoform Beta 1) (Cat:504011) in a functional ELISA.
2. Measured by its ability to bind with biotinylated human NRG1 (isoform Beta 1) (Cat:5040112) in a functional ELISA.
3. Measured by its ability to bind with biotinylated human NRG1 (aa 2-246)-Fc (Cat:504102) in a functional ELISA.
4. Measured by its ability to bind with biotinylated human NRG1 (aa 20-241)-His (Cat:503946) in a functional ELISA.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by

the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Glu 26

### Molecular Mass

The recombinant human ErbB4/Fc is a disulfide-linked homodimeric protein after proteolytic removal of the signal peptide. The reduced monomer consists of 871 amino acids and predicts a molecular mass of 97.5 kDa. As a result of glycosylation, the rh ErbB4/Fc monomer migrates as approximately 125-135 kDa band in SDS-PAGE under reducing conditions.

### Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

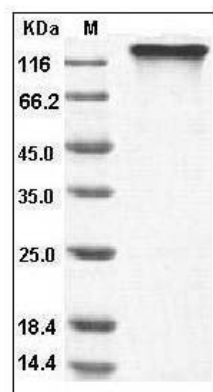
### SDS-PAGE

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Human HER4 / ErbB4 Protein (His & Fc Tag) SDS-PAGE