

# Human HER2 / ErbB2 / CD340 (676-1255) Protein (His & GST Tag)

Catalog Number: 10004-H20B1



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

CD340; HER-2; HER-2/neu; HER2; MLN 19; MLN19; NEU; NGL; TKR1

### Protein Construction:

A DNA sequence encoding the cytoplasmic domain (Lys 676-Val 1255) of human ErbB2 (NP\_004439.2) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

**Source:** Human

**Expression Host:** Baculovirus-Insect Cells

## QC Testing

**Purity:** > 85 % as determined by SDS-PAGE

### Bio Activity:

**No Kinase Activity**

### 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:** Gln 26

### Molecular Mass:

The recombinant human ErbB2 (676-1255)/GST chimera consists of 817 amino acids and predicts a molecular mass of 92 kDa. It migrates as an approximately 100 kDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 2 mM GSH, 10 % gly, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

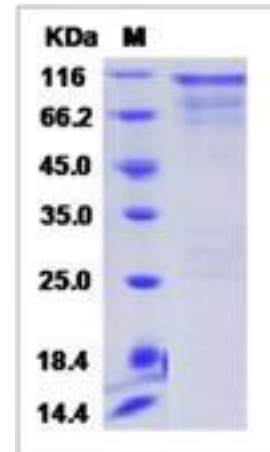
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

Epidermal growth factor receptor 2 (HER2), also known as ErbB2, NEU, and CD340, is a type I membrane glycoprotein, and belongs to the epidermal growth factor (EGF) receptor family. HER2 protein cannot bind growth factors due to the lacking of ligand binding domain of its own and autoinhibited constitutively. However, HER2 forms a heterodimer with other ligand-bound EGF receptor family members, therefore stabilizes ligand binding and enhances kinase-mediated activation of downstream molecules. HER2 plays a key role in development, cell proliferation and differentiation. HER2 gene has been reported to associate with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate, ovarian, lung cancers and so on.

## References

3.Krawczyk N, *et al.* (2009) HER2 status on persistent disseminated tumor cells after adjuvant therapy may differ from initial HER2 status on primary tumor. *Anticancer Res.* 29(10): 4019-24.

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