

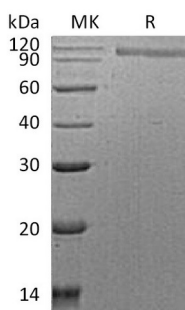
**Product Name: Recombinant Human HER2 (C-6His)**  
**Catalog #: PHH1414**



## Summary

<b>Name</b>	HER2/CD340/ERBB2/Receptor Tyrosine-Protein Kinase ErbB-2
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human Receptor Tyrosine-protein Kinase ErbB-2 is produced by our Mammalian expression system and the target gene encoding Thr23-Thr652 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	P04626
<b>Host</b>	Human Cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	70.2 KDa
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of 20mM Citrate, 8% Sucrose, 0.05% Tween 80, pH 4.5.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SDS-PAGE image



## Background

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**Alternative Names**

Receptor tyrosine-protein kinase erbB-2; Metastatic lymph node gene 19 protein; Proto-oncogene Neu; Tyrosine kinase-type cell surface receptor HER2; ERBB2; MLN19; NGL; TKR1

**Background**

Human epidermal growth factor receptor 2 (HER2) is a type of membrane glycoprotein, and belongs to the epidermal growth factor (EGF) receptor family. HER2 plays a key role in development, cell proliferation and differentiation. HER2 has been reported to associate with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate, ovarian, lung cancers and so on. HER2 is activated by dimerization and not activated by EGF, TGF-alpha and amphiregulin. Interaction with PTK6 increases its intrinsic kinase activity. It is heterodimer with EGFR, ERBB3 and ERBB4. HER2 associates with the 5-TCAAATTC-3 sequence in the PTGS2/COX-2 promoter and activates its transcription. It implicated in transcriptional activation of CDKN1A and the function of the protein involves STAT3 and SRC. And also it involved in the transcription of rRNA genes by RNA Pol I and enhances protein synthesis and cell growth.

**Note**

For Research Use Only , Not for Diagnostic Use.