

## HER2/ERBB2 Protein, Rat, Recombinant (E. coli, His)

### General Information

Synonyms:	p185erbB2;Epidermal growth factor receptor-related protein;p185neu;EGFR2;ERBB2;CD340;Proto-oncogene c-ErbB-2;Proto-oncogene Neu;Receptor tyrosine-protein kinase erbB-2
Protein Construction:	Ala67-Val323
Species:	Rat
Expression Host:	E. coli
Accession:	P06494
Molecular Weight:	32 KDa (reducing condition)
AA Sequence:	Ala67-Val323

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, 5% Trehalose, 4M Urea, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

ERBB2 belongs to the protein kinase superfamily, Tyr protein kinase family and EGF receptor subfamily. It contains a protein kinase domain. ERBB2 is widely expressed in epithelial cells, and amplification and/or overexpression of ErbB2 has been reported associated with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate and ovarian cancers. Rat ERBB2 is an essential component of a neuregulin-receptor complex,

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although neuregulins do not interact with it alone. ErbB2 mediates signalling pathways which involve mitogen-activated protein kinase and phosphatidylinositol-3 kinase, this receptor plays a key role in development, cell proliferation and differentiation.

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