

Recombinant Human HER2/ErbB2 Protein (His Tag)

Catalog Number:PKSH031997



Note: Centrifuge before opening to ensure complete recovery of vial contents.

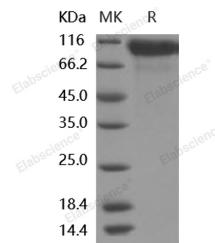
Description

Synonyms	Receptor tyrosine-protein kinase erbB-2;Metastatic lymph node gene 19 protein;Proto-oncogene Neu;Tyrosine kinase-type cell surface receptor HER2;ERB B2;MLN19;NGL;TKR1;CD340;ENV;ENVW;ERVWE1;HER-2;HER-2/neu;HER2;HERV-7q;HERV-W-ENV;HERV7Q;HERVW;HERVWENV;MLN 19;TKR1
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Thr 652
Accession	NP_004439.2
Calculated Molecular Weight	71.0 kDa
Observed molecular weight	100-110 kDa
Tag	C-His
Bioactivity	Immobilized human Erbb2 at 2. 5 µg/ml (100 µl/well) can bind Herceptin with a linear ranger of 1. 28-32 ng/ml.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

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

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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.

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