

Recombinant Human ErbB-2/HER2/CD340 Domain 4 Protein

Catalog No.: RP00493 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2064	P04626-1

Tags

C-His&Avi

Synonyms

CD340; EGFR2; ErbB2; HER2; HER-2; herstatin; MLN 19; MLN19; NGL; TKR1; ERBB2; NEU; ENV; ENVW; ERVWE1; HERV7Q; HERVW

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

Endotoxin

< 1 EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

ErbB2, also called Neu and Her2 (human epidermal growth factor receptor 2), is a type I membrane glycoprotein that is a member of the ErbB family of tyrosine kinase receptors. ErbB family members serve as receptors for the epidermal growth factor (EGF) family of growth factors. Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane.

Basic Information

Description

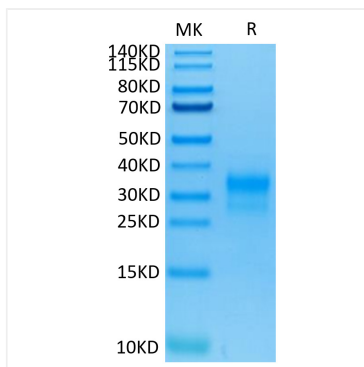
Recombinant Human Her2/ErbB2 Domain 4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Pro489-Cys630) of Human Her2/ErbB2 Domain 4 (Accession #P04626-1) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

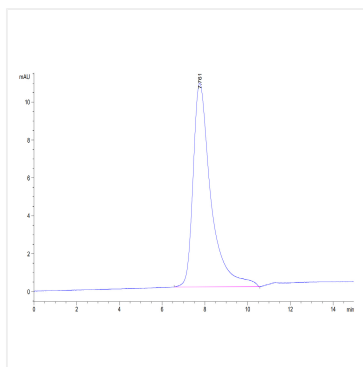
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

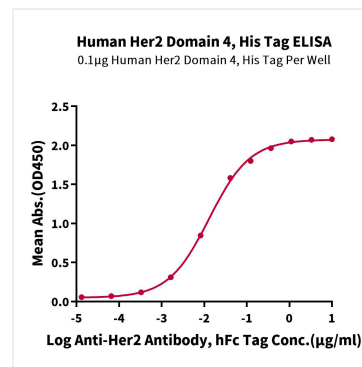
Validation Data



Human Her2 Domain 4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human Her2 Domain 4 is greater than 95% as determined by SEC-HPLC.



Immobilized Human Her2 Domain 4, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-Her2 Antibody, hFc Tag with the EC₅₀ of 13.1ng/mL determined by ELISA.