

Biotinylated Human Her2 / ErbB2 Protein, His,Avitag™ (MALS verified)

Catalog # HE2-H82E3



Synonyms

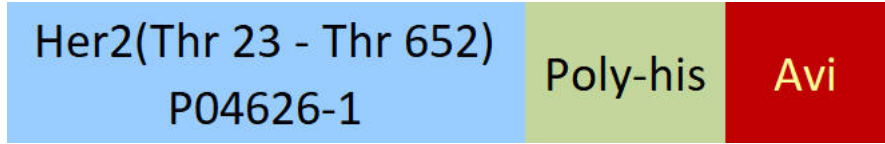
ERBB2, CD340, HER-2, neu, HER2, MLN19, NEU, NGL, TKR1

Source

Biotinylated Human Her2 Protein, His,Avitag (HE2-H82E3) is expressed from human 293 cells (HEK293). It contains AA Thr 23 - Thr 652 (Accession # [P04626-1](#)).

Predicted N-terminus: Thr 23

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 57.3 kDa. The protein migrates as 65-80 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avi tag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

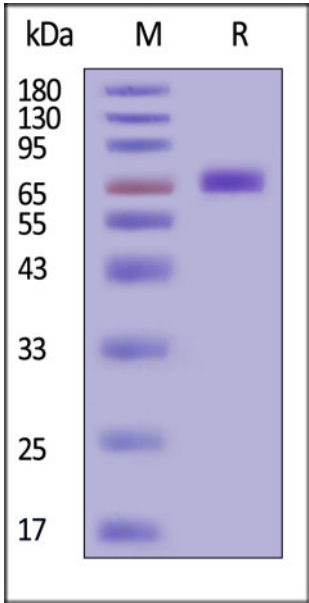
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

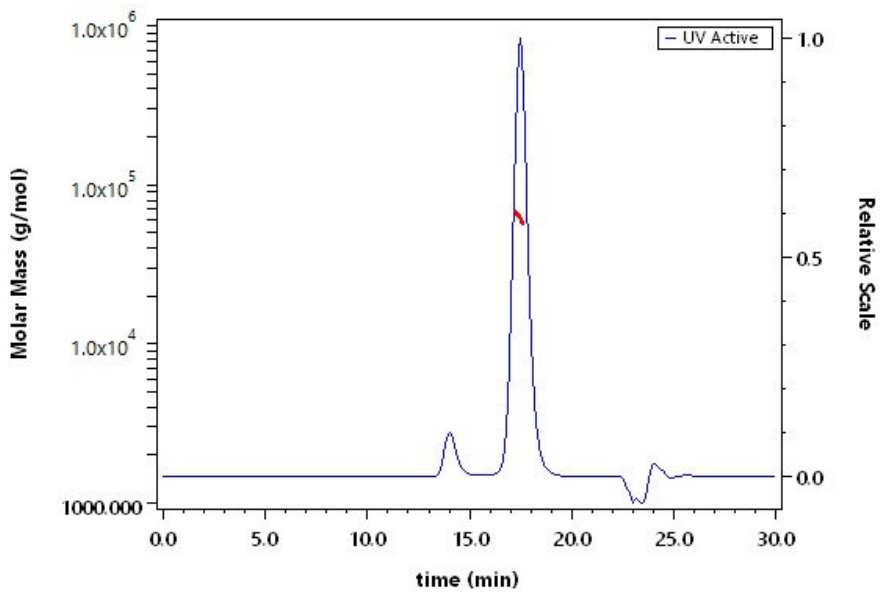
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



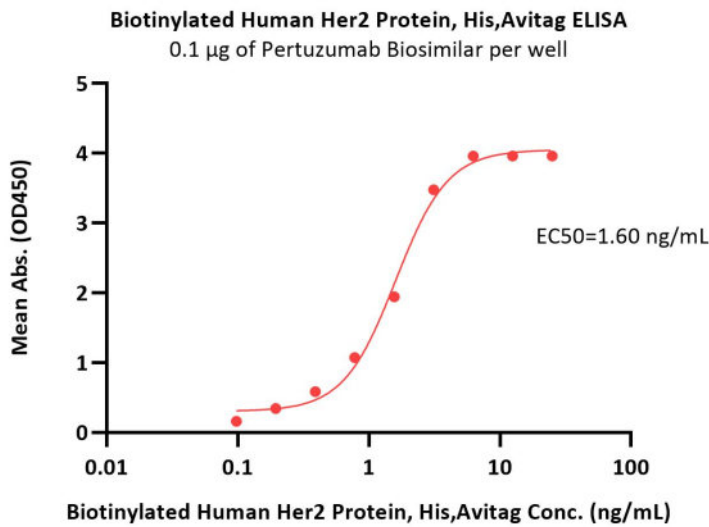
Biotinylated Human Her2 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Human Her2 Protein, His,Avitag (Cat. No. HE2-H82E3) is more than 90% and the molecular weight of this protein is around 55-75 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Pertuzumab Biosimilar at 1 µg/mL (100 µL/well) can bind Biotinylated Human Her2 Protein, His,Avitag (Cat. No. HE2-H82E3) with a linear range of 0.1-3 ng/mL (QC tested).

Background

Human Epidermal Growth Factor Receptor 2 (HER2), also known as ErbB-2, is a cell membrane-bound receptor tyrosine kinase of the EGFR/ErbB family, encoded by the ERBB2 gene. It is crucial for cell growth and differentiation signaling. Uniquely, HER2 is an orphan receptor lacking a direct ligand, but forms highly active heterodimers with other ligand-bound ErbB family members, significantly amplifying oncogenic signals.

Aberrant amplification or overexpression of the HER2/neu proto-oncogene is a key oncogenic driver. In breast cancer, approximately 25-30% of patients exhibit HER2 overexpression, leading to a more aggressive disease phenotype with faster growth, increased metastasis, and often reduced chemotherapy sensitivity. This correlates with poorer prognosis and makes HER2 a critical prognostic, predictive biomarker, and a major therapeutic target.

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