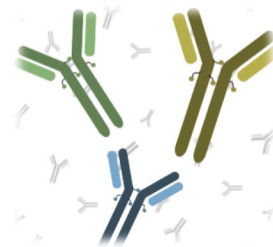


Trastuzumab HPLC Standard, hIgG1k mAb

Product Code: CM51002

Amount: 400 µg (micrograms)



Product Description

Trastuzumab is a humanized IgG1κ monoclonal antibody that specifically binds to the extracellular domain of human epidermal growth factor receptor 2 (HER2/ErbB2). Trastuzumab is the active antibody in Herceptin® and forms the antibody component of HER2-targeted antibody drug conjugates such as ado-trastuzumab emtansine and trastuzumab deruxtecan.

This research-use-only product is intended for use as a quantitative or qualitative control or reference material in antibody characterization and bioanalytical testing. It may support a broad range of chromatographic, electrophoretic, spectroscopic, binding, and immunochemical methods. Suitability for a specific method or application should be established by the user.

Each package contains four microcentrifuge tubes, with each tube containing 100 µg of lyophilized material, for a total of 400 µg per package. The product requires reconstitution before use. For bulk orders, please contact us for a quotation.

Antibody Information

- **Molecular Weight:** Approximately 148 kDa
- **Target:** HER2/ErbB2
- **Immunogen:** Cells overexpressing human HER2/ErbB2
- **Species Reactivity:** Human and cynomolgus monkey. No detectable cross-reactivity with mouse or rat ErbB2/neu
- **Expression Host:** Chinese hamster ovary (CHO) cells, stable recombinant cell line
- **Class/Isotype:** Human IgG1 Kappa (IgG1k)
- **Antibody Type:** Monoclonal
- **Purification Method:** Multistep chromatographic purification, including Protein A affinity chromatography
- **Purity:** ≥99% monomeric by SEC-HPLC
- **Physical Appearance:** Colorless to white lyophilized powder in a microcentrifuge tube

Key Features

- Lyophilized from a histidine-buffered solution at pH 5.5-6.0
- Accurate protein amount determined by UV/HPLC
- Ready for use following reconstitution with sterile water

Reconstitution

Reconstitute with the desired volume of sterile water. For reference, reconstituting one tube with 100 µL yields a product concentration of 1 mg/mL. The resulting solution is histidine-buffered at pH 5.5–6.0.

Applications

- HPLC analysis, including size-exclusion (SEC), ion-exchange (IEX), hydrophobic

interaction (HIC), and reversed-phase (RP) chromatography

- SDS-PAGE and Western blotting
- Reducing and nonreducing CE-SDS
- Capillary isoelectric focusing (cIEF or icIEF).
- Protein concentration analysis, ELISA and other immunoassays
- Surface plasmon resonance (SPR) and biolayer interferometry (BLI)

Storage/Stability

- Store the lyophilized product at or below -20 °C
- Shelf life before reconstitution: One year from the date of receipt when stored as directed
- After reconstitution, store at 2-8 °C and use within 24 hours for best performance

Figure 1. Representative size-exclusion HPLC (SEC-HPLC) profile of Trastuzumab HPLC standard (Product code: CM51002; Lot no. S705.S7.0630F), showing ≥99% monomeric purity with no detectable aggregates.

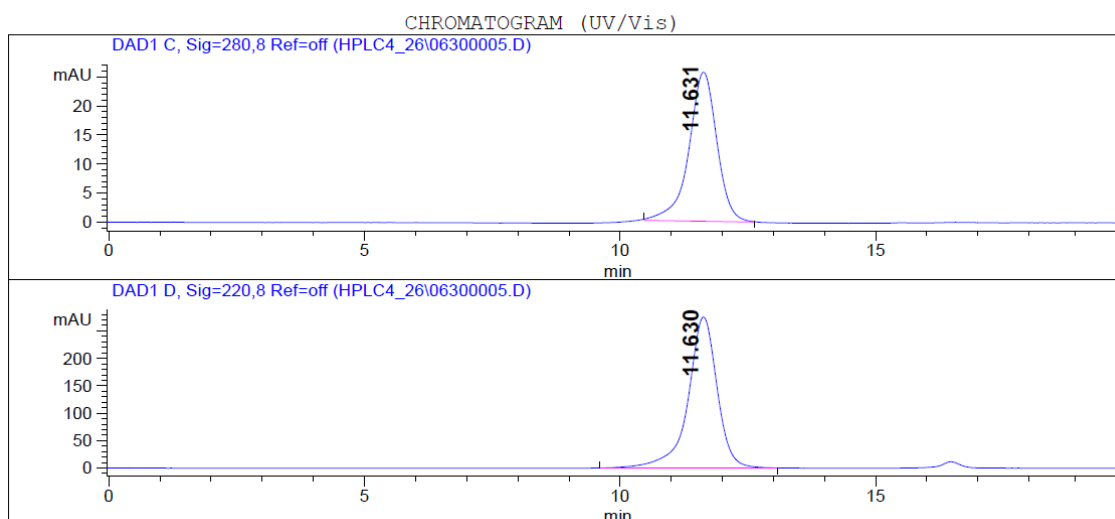
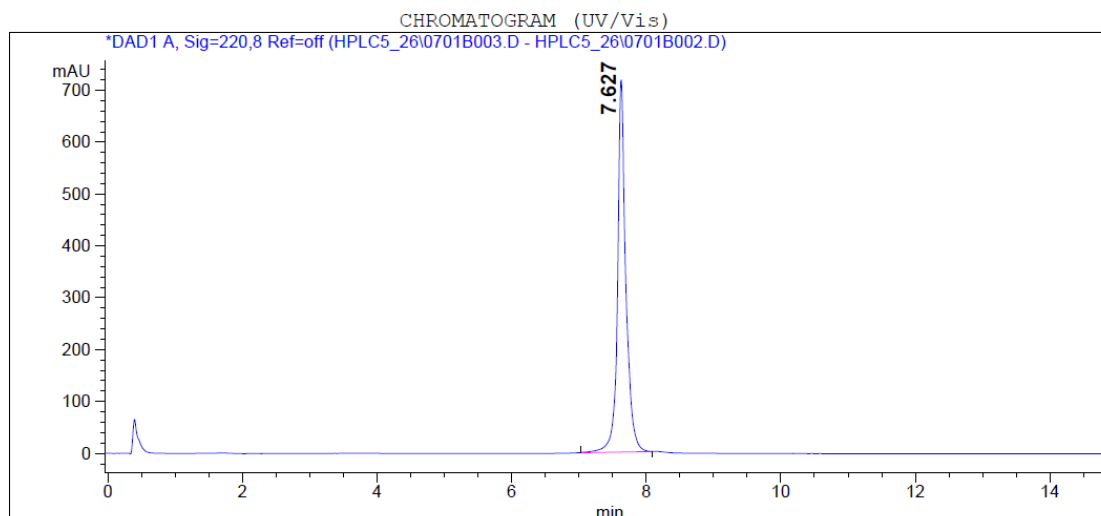


Figure 2. Representative hydrophobic interaction chromatography (HIC-HPLC) profile of Trastuzumab HPLC standard (Product code: CM51002; Lot no. S705.S7.0630F), demonstrating a high degree of antibody homogeneity.



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solely for identification and informational purposes and does not imply therapeutic equivalence.

Important Notes & Contact Information

READ BEFORE USING ANY RESOURCES PROVIDED HEREIN

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Sample data are provided for illustrative and example purposes only and represent a small dataset used to verify kit performance in the CellMosaic laboratory. Information about the chemicals and reagents used in the kit are provided as necessary.

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