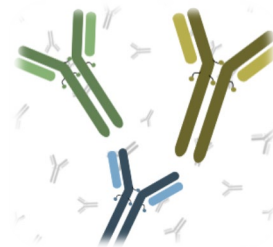


Trastuzumab Biosimilar Human anti-Her2 mAb

Product Code: CM51000-25UG, CM51000-100UG



Product Description

Trastuzumab, also known as Herceptin, is a human monoclonal antibody that targets the HER2/c-neu receptor of the ErbB family of tyrosine kinase receptors. Recognized for its efficacy against HER2-positive cancers, Trastuzumab is widely used in the treatment of HER2-positive breast and gastric cancers—either as monotherapy in immunotherapy or in combination with conjugated targeted therapies such as ado-trastuzumab emtansine and trastuzumab deruxtecan. It has been proven to be a promising biologic agent in cancer treatment.

CellMosaic's Trastuzumab Biosimilar is a research-grade biologic equivalent of anti-HER2 monoclonal antibody, designed to support research involving Trastuzumab. The product mimics the efficacy and mechanism of action of the original Trastuzumab. It serves as a suitable alternative for anti-HER2 antibody research, effectively controlling HER2 overexpression by inhibiting cellular proliferation, replication, and downstream signaling pathways. This product is provided as 25 µg aliquots of lyophilized solid, ready to use after reconstitution with sterilized water. It is suitable for ELISA assays and studying Trastuzumab-related biological mechanisms.

Product Options

- 1 vial of 25 µg (Product Code: CM51000-25UG)
- 4 vials of 25 µg (Product Code: CM51000-100UG)

For bulk order, please contact us for a quote.

Antibody Information

- **Molecular Weight:** 150 kDa
- **Immunogen:** HER2/c-neu receptor (ErbB family)
- **Expression Host:** CHO stable cell line (biosimilar to trastuzumab)
- **Class:** Human IgG1 Kappa
- **Antibody Type:** Monoclonal
- **Purity:** 95–100% by SEC HPLC Analysis (refer to specific lot for actual purity)
- **Physical Appearance:** Colorless to white lyophilized powder in a microcentrifuge tube

Key Features of the Product

- Lyophilized solid from a sterile buffer (approx. pH 6.0) containing sugar-based stabilizers; no preservatives
- Ready to use upon reconstitution with sterile deionized water
- Accurate protein quantification by UV/HPLC
- Endotoxin level: ≤0.1 EU per 1 mg of the antibody (LAL method)

Applications

- Neutralization, functional assays, antibody engineering or development
- ELISA, FACS, IF, IHC, *in vivo* studies, IP, WB.
- Serves as a quantitative or qualitative control standard in assays

Storage/Stability

- Store lyophilized product at or below -20 °C
- Shelf life (before reconstitution): 1 year from receipt
- After reconstitution, store at 2-8 °C. For best performance, use within 24 hours

Figure 1: Representative size-exclusion HPLC (SEC-HPLC) profile of Trastuzumab Biosimilar (Human anti-HER2 mAb, Product: CM51000), demonstrating no detectable aggregation and ≥99% purity.

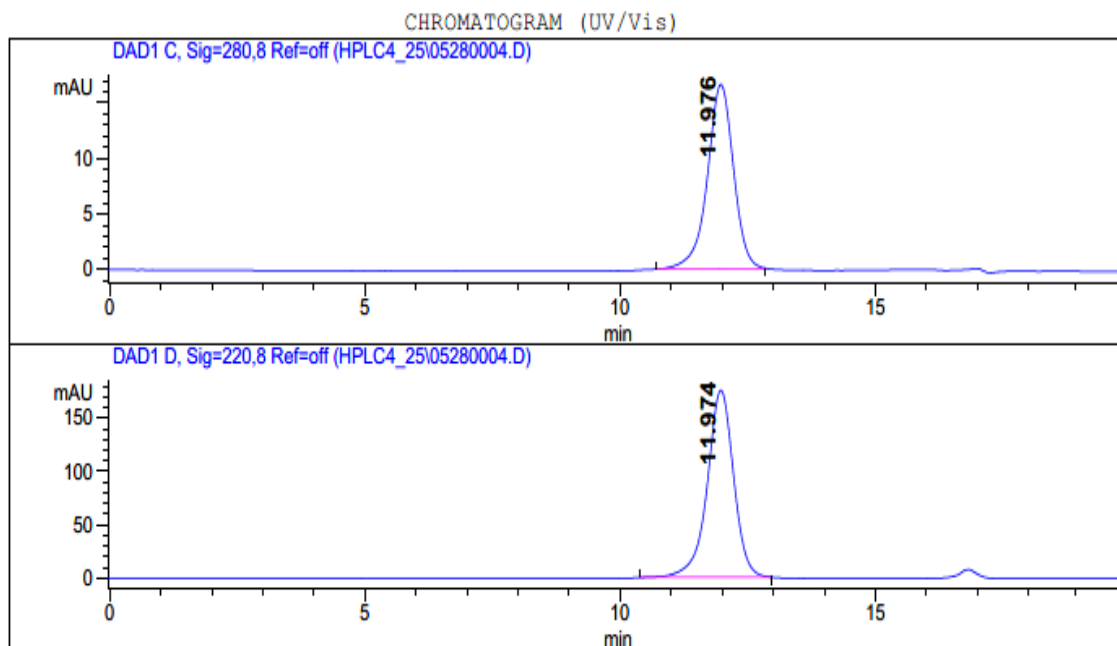
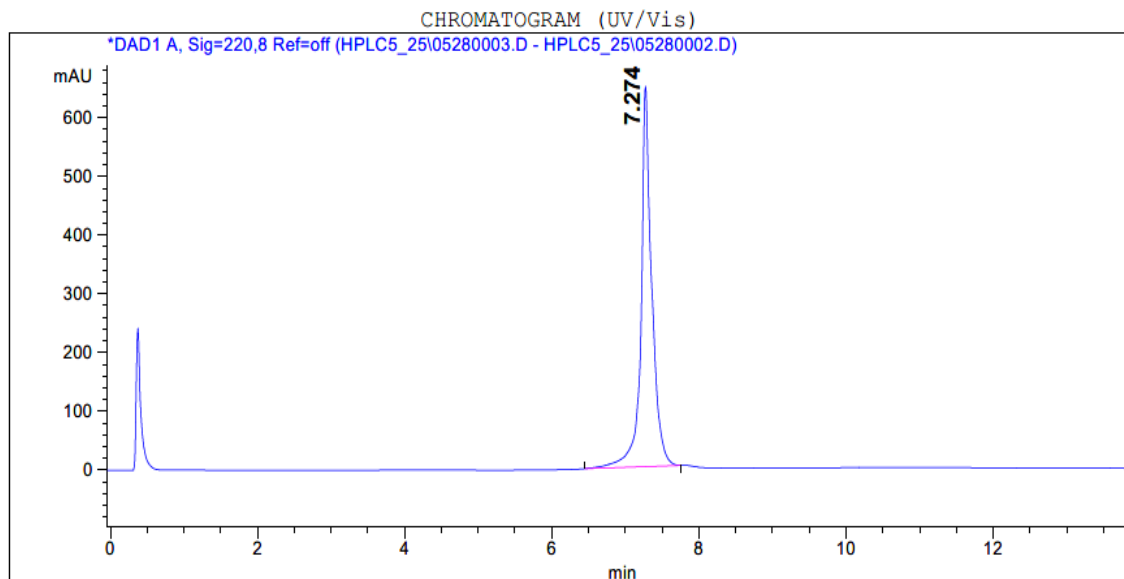


Figure 2: Representative hydrophobic interaction chromatography (HIC-HPLC) profile of Trastuzumab Biosimilar (human anti-HER2 mAb, Product: CM51000), demonstrating near homogeneity of the antibody.



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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