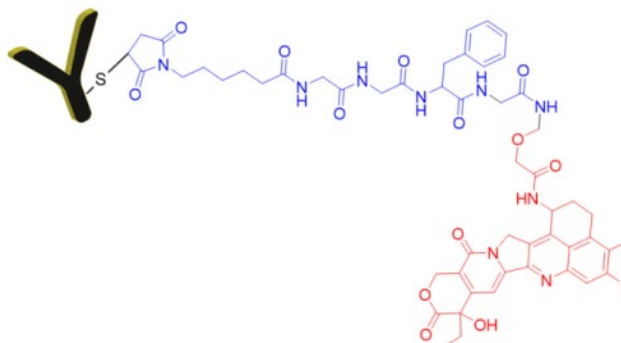


ADC Control hIgG1-Deruxtecan

Lyophilized solid, 100 microgram or
500 microgram per tube, ≥95%

Product Number: CM51103-100UG,
CM51103-500UG, CM51103-1MG



Product Description

Deruxtecan is an exatecan-derivative topoisomerase I inhibitor. Deruxtecan is a thiol reactive derivative of DXd that contains enzymatically cleavable peptide linker GGFG. Trastuzumab Deruxtecan, sold under the brand name Enhertu was approved by US FDA for treating metastatic HER2-positive breast cancer. This product is a control ADC for any IgG type antibody labeled with Deruxtecan, particularly any ADC made using CellMosaic's Antibody Deruxtecan Conjugation Kit (Cat#: CM11431). The product uses a human IgG1 subtype antibody that does not bind to the target. It has an average of 3-5 Deruxtecan loaded on each antibody and can be used for accessing the effect of Deruxtecan alone (non-specific toxicity). The product uses a very low endotoxin level antibody as a starting material (≤ 0.5 EU/mg by the LAL method). The preparation and purification are conducted under a pyrogen free environment.

The product is sold as 1 vial of 100 microgram (Cat# CM51103-100UG), 1 vial of 500 micrograms (Cat# CM51103-500UG), or 2 vials of 500 micrograms (Cat# CM51103-1MG). For bulk orders, please contact us for a quote.

Application

- Suitable for control studies for any IgG type antibody labeled with Deruxtecan.

Key Features of this ADC Control

- Lyophilized from pH 6.5 acetate buffer containing sugar-based stabilizer for easy shipping and storage.
- **Optimal loading** with average of 3-5 Deruxtecan per antibody to match the conjugate prepared by using CM11431.
- Concentration accurately determined by UV/HPLC
- Loading is confirmed by various methods including UV, HPLC, and difference MALDI-TOF MS
- Final product assayed for endotoxin and suitable for cell culture and animal studies.

Chemical Information

- **Chemical Name:** ADC Control hIgG1- Deruxtecan
- **Chemical Formula:** N/A
- **Molecular Weight:** 152KDa **CAS Number:** N/A

Specification

- **Physical Appearance:** Colorless to white lyophilized powder in a microcentrifuge tube
- **Storage Temp:** -20°C
- **Purity:** ≥99% of Deruxtecan labeled antibody by SEC HPLC, free of any unreacted Deruxtecan
- **Endotoxin Level:** ≤0.5 EU/mg by the LAL method
- **Drug over Antibody Ratio (DAR):** 3 to 5 (usually 4)

Antibody Information

- **Immunogen:** HEL (Hen Egg Lysozyme)
- **Species Reactivity:** Chicken
- **Expression Host:** CHO-S- cell line
- **Class:** Human IgG1, Kappa
- **Antibody Type:** Monoclonal
- **Applications:** ELISA, FACS, IF, IHC, in vivo studies, IP, WB
- **Purification Method:** Affinity purified.