

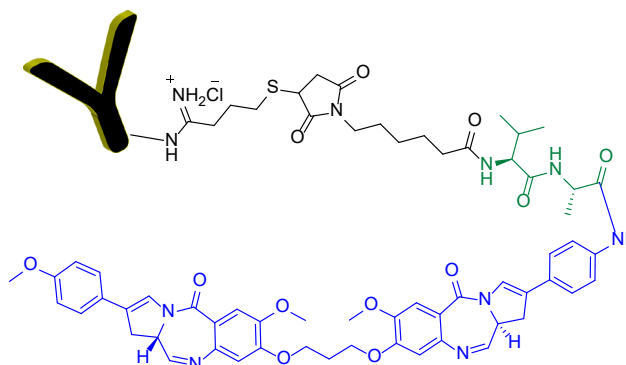
ADC Control hIgG1-PBD Dimer

Product Numbers: CM51104-100UG,
CM51104-500UG, CM51104-1MG

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

Product Description

Pyrrolo[2,1-c][1,4]benzodiazepines (PBDs) are a class of antitumor antibiotics that were discovered in the 1960s. The first PBD, anthramycin, was isolated from the cultures of *Streptomyces*. PBDs are sequence-selective DNA minor-groove binding agents that inhibit nucleic acid synthesis. PBD dimers, with two PBD units linked via their C8 positions, are more potent DNA alkylating agents than monomers and have been used by several companies to develop antibody-drug conjugates. Examples include Rovalpituzumab tesirine (AbbVie/Stemcentrx), Vadastuximab talirine (Seattle Genetics), Camidanlumab tesirine, and Loncastuximab tesirine (ADC Therapeutics). This product is a control ADC for any IgG type antibody labeled with PBD Dimer, particularly any ADC made using CellMosaic's Antibody PBD Dimer Conjugation Kit (Cat#: CM11439). The product uses a human IgG1 subtype antibody that does not bind to the target. It has an average of 2-4 PBD Dimer loaded on each antibody and can be used for accessing the effect of PBD Dimer 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# CM51104-100UG), 1 vial of 500 micrograms (Cat# CM51104-500UG), or 2 vials of 500 micrograms (Cat# CM51104-1MG). For bulk orders, please contact us for a quote.

Application

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

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 an average of 2-4 PBD Dimer per antibody to match the conjugate prepared by using CM11439
- Concentration accurately determined by UV/HPLC
- Loading is confirmed by various methods including HPLC and difference MALDI-TOF MS
- The final product is low in endotoxin and suitable for cell culture and animal studies

Chemical Information

- **Chemical Name:** ADC Control hIgG1- PBD Dimer

- **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 PBD Dimer labeled antibody by SEC HPLC, free of any unreacted PBD Dimer
- **Endotoxin Level:** ≤0.5 EU/mg
- **Drug over Antibody Ratio (DAR):** 2 to 4 (usually 3)

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.