

Antibody Drug Conjugates (ADCs) Approved by FDA

The large number of emerging antibody-drug conjugates (ADCs) for cancer therapy has resulted in a significant market 'boom', garnering worldwide attention. With significant technological advancements and an improved mechanistic understanding of ADC activity, after decades of research, 14 ADCs have been FDA approved, each providing demonstrable therapeutic benefit to cancer patients. Currently, about 297 ADCs are in preclinical/clinical development, indicating that the world is ushering in a new era of targeted cancer therapy.

An antibody–drug conjugate (ADC) comprises three main structural units:

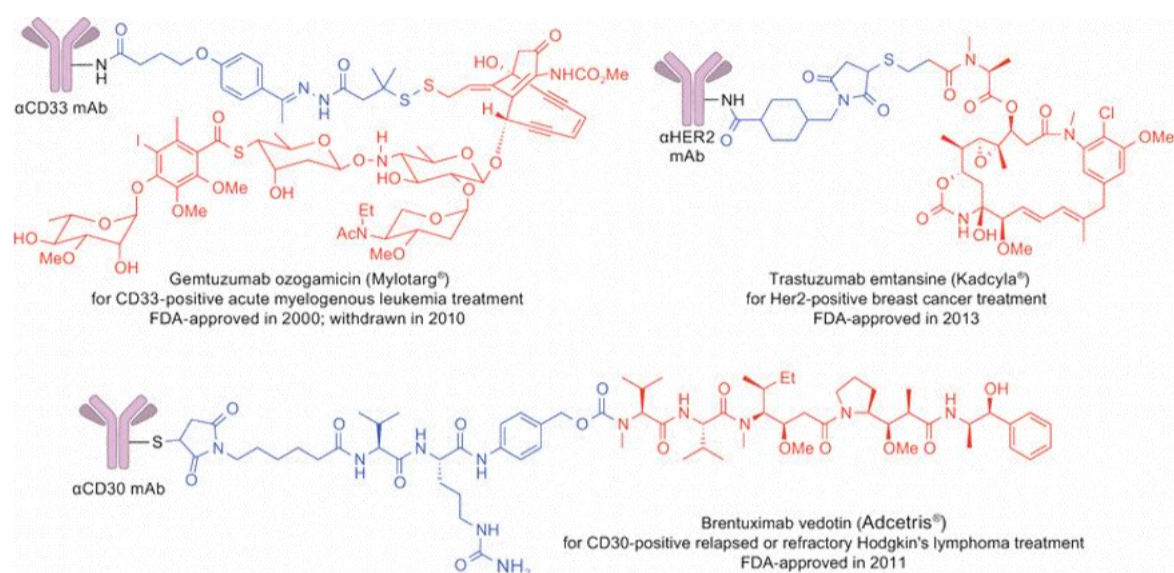


Fig 1 Structures of FDA-approved ADCs: Mylotarg®, Adcetris®, and Kadcyla® (blue: linker, red: payload)

- **An antibody (Ab) targeting a particular cell.** ADCs traditionally possess a chimeric or humanized antibody. Most ADCs are built upon the IgG1 architecture.
- **A linker that is stable in circulation, but releases the cytotoxic agent in target cells.**
- **The cytotoxic drug that will be used to kill the targeted cell.** Highly potent payloads are required to achieve therapeutic efficacy.

Our Service

At ALL Chemistry Inc, we are proud to offer our customers our state of the art Antibody-drug Conjugates technologies. We understand that each customer's needs are different and that is why we are committed to providing a tailored solution for each and every one. Our Antibody-drug Conjugates technologies are based on the latest in scientific research and provide our customers with the highest quality results. Utilizing cutting edge advancements in the field, our team of experts are able to provide highly optimized individual



conjugate linkers, reagents, drug-dye combinations and data analysis services. All of our projects are completed quickly and efficiently, providing superior results with the utmost precision and accuracy.

Our team of experienced personnel are dedicated to providing superior customer service. Our customer service staff has a deep understanding of Antibody-drug Conjugates technology, ensuring that each customer's project receives the attention it deserves.

Our Advantages

Independent synthetic route design.
High-quality product preparation from milligrams to tons.
1-2 weeks for kilograms and 2-3 days for milligrams.
High optical purity (>99%).
Strict quality control (QC by HPLC, NMR, GC/LC/MS).
Following the principles of green chemistry
Intellectual property and data integrity protection

Additional Services

- * ADC Antibody Screening
- * ADC Analytical Characterization and Validation
- * ADC Fill and Finish
- * Antibody Conjugation Chemistry
- * Linker and Payload Synthesis



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