PRODUCT INFORMATION

Applications	Antibody internalization labeling kit
Detection method	Cell viability detection with MTT, CCK8, or CTG
Excitation-Emission	N/A
Molecular Weight	The product has a MW of 34 kDa
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
IgG type	The DiTagTM Eribulin IgG labeling reagents can be used for human IgG1, IgG2 and IgG4, rabbit IgG, mouse IgG2a and IgG2b.
Recommended Dilutions	We recommend test antibody to mix with AME100005 at 2:1 in molar ratio
Description	DiTagTM Eribulin IgG labeling reagent
Delivery	in Stock
Storage & Shipping	The reagents are supplied in lyophilized form. We recommend storing the vial(s) at -20℃, desiccated and protected from light. Once reconstituted, the reagents can be stored at 2-8℃ for 1~2 weeks, or with 50% glycerol at -20℃.
Background	DiTag™ Eribulin IgG labeling reagents provide an easy solution for quantifying antibody internalization activities. Leveraging Mal-PEG2-VCP-Eribulin conjugated to an Fc binding protein, these reagents bind to IgG antibodies from various species, resulting in the formation of an Eribulin-labeled antibody-reagent complex. Upon antibody internalization, the cleavable linker Val-Cit-PABC is enzymatically cleaved by cathepsin B, a protein overexpressed in multiple cancer types. This enzymatic cleavage triggers the release of PABC-substituted Eribulin, forming an unstable intermediate that liberates the free drug. Measurement of cell killing or inhibition allows researchers to evaluate the efficiency of antibody internalization into cells. This critical information enhances our understanding of the cellular uptake mechanism of antibodies and aids in assessing their efficacy in targeted therapies or diagnostic applications.
Usage	Research use only

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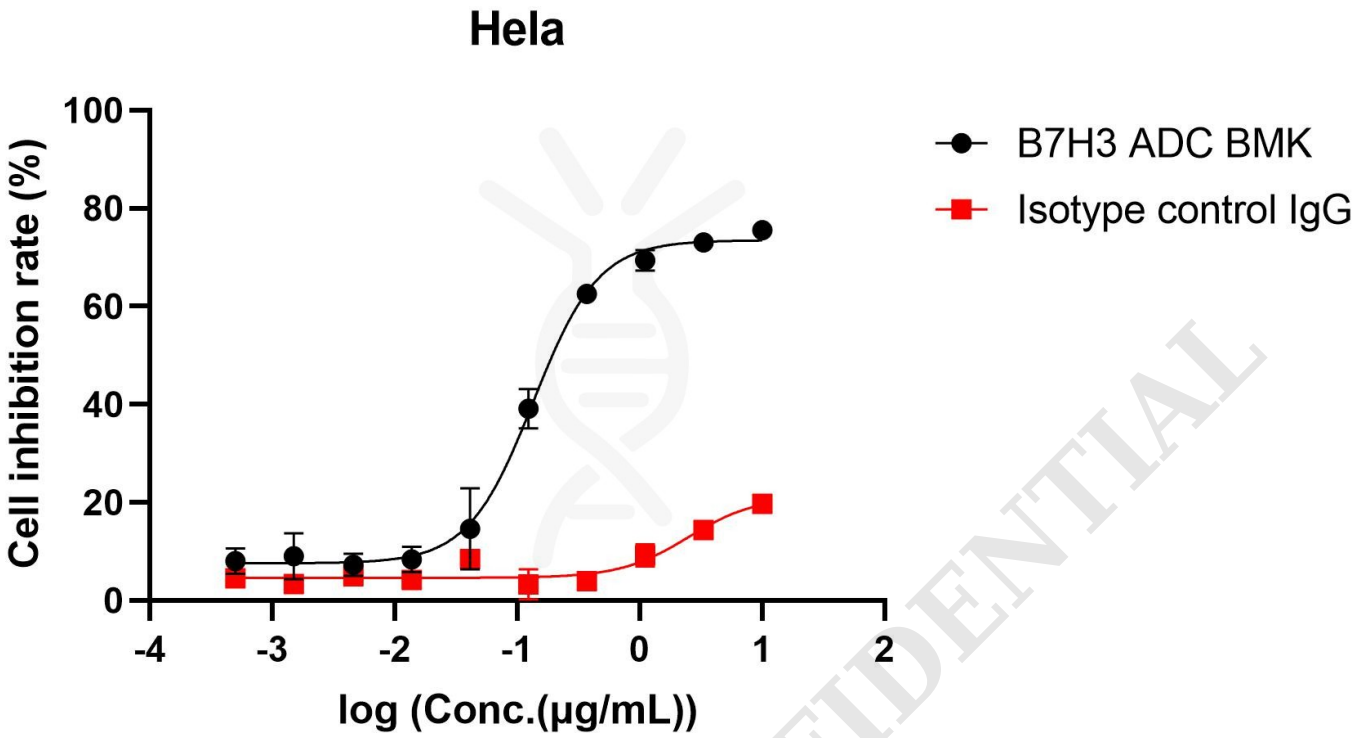

Figure 1. Cell inhibition rate of Hela detected by CCK8 method. The IC50 of B7H3 ADC BMK is 135.1ng/ml, indicating specific internalization.

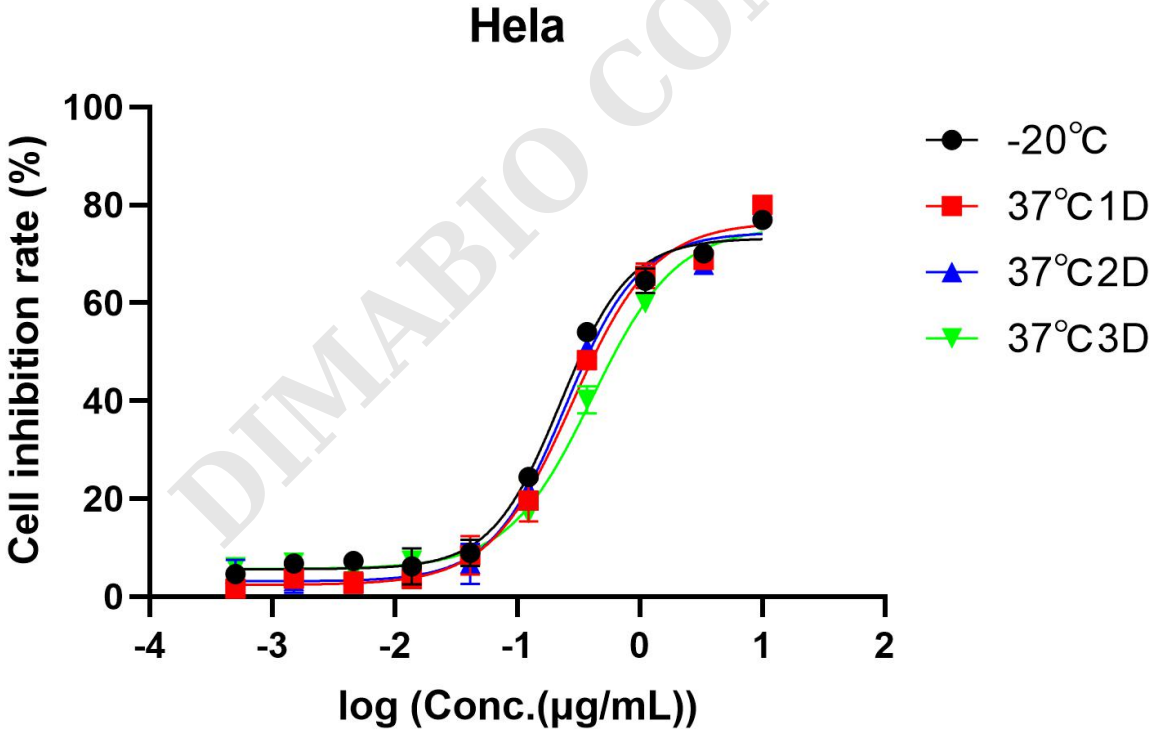

Figure 2. Accelerated stability test of AME100005. After lyophilization, the samples were stored at -20℃ (black), 37℃ for 1 day (red), 37℃ for 2 days (blue), 37℃ for 3 days (green), separately. After reconstitution, cell inhibition rate of each samples was detected by CCK8 method. The data indicate that all the samplesexhibit excellent stability.

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