

PRODUCT INFORMATION

Applications Antibody internalization labeling kit

Detection method Cell viability detection with MTT, CCK8, or CTG

Excitation-Emission

Molecular Weight The product has a MW of 34 kDa

Lyophilized from sterile PBS, pH 7.4. Normally 5 % 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution.

The DiTagTM Eribulin IgG labeling reagents can IgG type be used for human IgG1, IgG2 and IgG4, rabbit

lgG, mouse lgG2a and lgG2b.

Recommended We recommend test antibody to mix with

AME100005 at 2:1 in molar ratio **Dilutions**

Description DiTagTM Eribulin IgG labeling reagent

Delivery in Stock

Background

The reagents are supplied in lyophilized form. We

recommend storing the vial(s) at -20°C,

Storage & Shipping

desiccated and protected from light. Once reconstituted, the reagents can be stored at 2-8°C for 1~2 weeks, or with 50% glycerol at -20°C. DiTag™ Eribulin IgG labeling reagents provide an

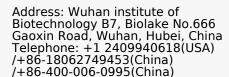
easy solution for quantifying antibody internalization activities. Leveraging Mal-PEG2-VCP-Eribulin conjugated to an Fc binding protein, these reagents bind to IgG antibodies from the conjugated to the protein of the conference various species, resulting in the formation of an Eribulin-labeled antibody-reagent 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

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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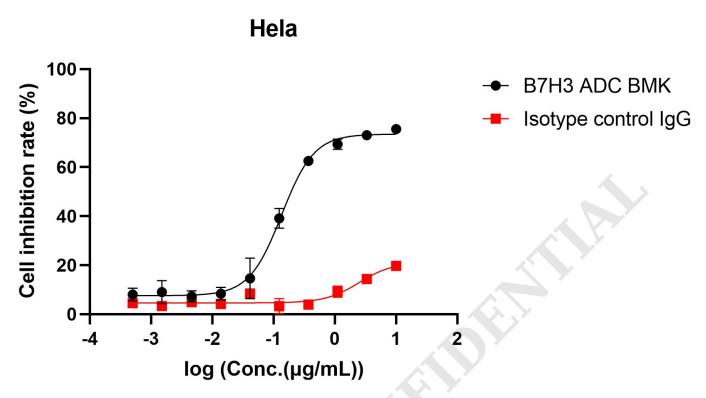


Figure 1. Cell inhibition rate of Hela detected by CCK8 method. The IC50 of B7H3 ADC BMK is 135.1ng/ml, indicating specific internalization.

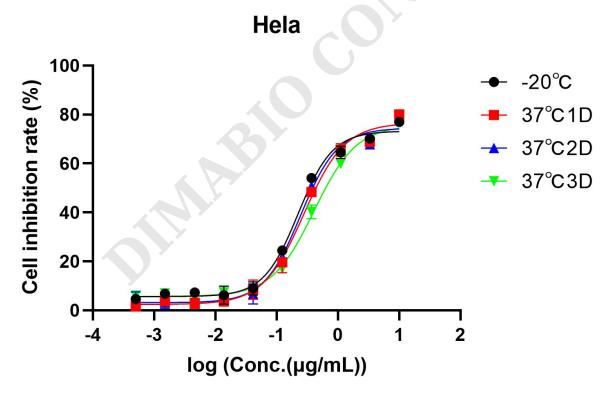


Figure 2. Accelerated stability test of AME100005. After lyophilization, the samples were stored at -20°C (black), 37°C for 1 day (red), 37°C for 2 days (blue), 37°C for 3 days (green), separately. After reconstitution, cell inhibition rate of each samples was detected by CCK8 method. The data indicate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

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