

ABSTRACT

5 A linker-drug conjugate, an antibody-drug conjugate, and a preparation method therefor and the use thereof. The linker-drug conjugate has a structure as shown in formula I, i.e., M-X-D (formula I), wherein M is a chemical structure comprising a maleimide (m) fragment or a cyclooctyne fragment, X is a linker fragment composed of 1-5 amino acids or derivatives thereof, and D is a cytotoxin. The linker-drug conjugate can release Payload by means of an enzymatic hydrolysis reaction in the case of removal of hydrophobic structure PAB, which can not only reduce the hydrophobicity of the Linker-Drug and reduce the content of a polymer produced in the preparation of ADC, but also can exhibit the corresponding cell killing activity.

10