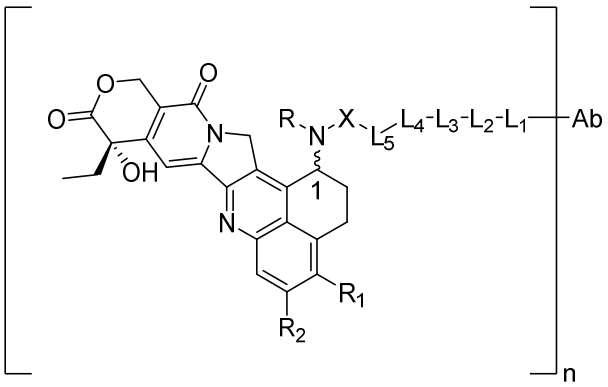
ABSTRACT

BISPECIFIC ANTIBODY-CAMPTOTHECIN DRUG CONJUGATE AND PHARMACEUTICAL USE THEREOF

A bispecific antibody simultaneously targeting two different epitopes or targets is coupled with a camptothecin drug to form a bispecific antibody-toxin conjugate that is stable in treatment and excellent in uniformity, and a drug-to-antibody ratio (DAR) thereof is 6.0-8.0. The antibody-toxin conjugate has a structure as represented by general formula (I), wherein Ab represents the bispecific antibody simultaneously targeting two different epitopes or targets, which is coupled with a linker-camptothecin drug. In addition, the present invention further relates to a preparation and purification method for the antibody-toxin conjugate, and an application thereof in tumor treatment. Furthermore, the present invention further relates to a linker-drug compound capable of being coupled with Ab to form the antibody-toxin conjugate.



I

[No figure to accompany]