

Title (en)  
POTENT CONJUGATES AND HYDROPHILIC LINKERS

Title (de)  
WIRKUNGSSTARKE KONJUGATE UND HYDROPHILE BINDER

Title (fr)  
CONJUGUÉS PUISSANTS ET SÉQUENCES DE LIAISON HYDROPHILES

Publication  
**EP 2486023 A1 20120815 (EN)**

Application  
**EP 09844200 A 20091006**

Priority  
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Abstract (en)  
[origin: WO2010126551A1] Linkers for binding drugs to cell binding agents are modified to hydrophilic linkers by incorporating a polyethylene glycol spacer. The potency or the efficacy of the cell-binding agent-drug conjugates is surprisingly enhanced several folds in a variety of cancer cell types, including those expressing a low number of antigens on the cell surface or cancer cells that are resistant to treatment. A method for preparing maytansinoids bearing a thioether moiety and a reactive group which allows the maytansinoid to be linked to a cell-binding agent in essentially a single step is also provided.

IPC 8 full level  
**A61K 47/48** (2006.01); **A61P 35/00** (2006.01); **C07D 498/18** (2006.01)

CPC (source: EP KR US)  
**A61K 31/535** (2013.01 - KR); **A61K 47/60** (2017.08 - EP); **A61K 47/68033** (2023.08 - EP KR US); **A61K 47/6851** (2017.08 - EP); **A61K 47/6889** (2017.08 - EP); **A61P 31/12** (2018.01 - EP); **A61P 33/00** (2018.01 - EP); **A61P 35/00** (2018.01 - EP); **A61P 35/02** (2018.01 - EP); **A61P 37/02** (2018.01 - EP); **A61P 37/06** (2018.01 - EP); **C07D 498/18** (2013.01 - EP KR US)

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DOCDB simple family (publication)  
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**US 2009059620 W 20091006**; CN 200980162373 A 20091006; EP 09844200 A 20091006; IL 21902012 A 20120403; IN 2780DEN2012 A 20120330; JP 2012533123 A 20091006; KR 20127010084 A 20091006