

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 A4 20140507 (EN)

Application
EP 09844200 A 20091006

Priority
US 2009059620 W 20091006

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)
A61K 31/535 (2013.01 - KR); **A61K 47/60** (2017.08 - EP); **A61K 47/68033** (2023.08 - EP KR); **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)

Citation (search report)

- [XI] WO 2005117986 A2 20051215 - GENENTECH INC [US], et al
- [I] WO 2005037992 A2 20050428 - IMMUNOGEN INC [US], et al
- [ID] US 2007269447 A1 20071122 - CHARI RAVI V J [US], et al
- [I] WO 2007140371 A2 20071206 - GENENTECH INC [US], et al
- [I] WO 2009012256 A1 20090122 - GENENTECH INC [US], et al
- [ID] WO 2006034488 A2 20060330 - GENENTECH INC [US], et al
- [L] WO 2009134976 A1 20091105 - IMMUNOGEN INC [US], et al
- See also references of WO 2010126551A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010126551 A1 20101104; CN 102596922 A 20120718; EP 2486023 A1 20120815; EP 2486023 A4 20140507; IL 219020 A0 20120628; IN 2780DEN2012 A 20150918; JP 2013506709 A 20130228; KR 20120080611 A 20120717

DOCDB simple family (application)
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