

Title (en)

IN VIVO COPPER-FREE CLICK CHEMISTRY FOR DELIVERY OF THERAPEUTIC AND/OR DIAGNOSTIC AGENTS

Title (de)

KUPFERFREIE IN-VIVO-CLICK-CHEMIE ZUR ABGABE VON THERAPIE- UND/ODER DIAGNOSEMITTELN

Title (fr)

CHEMIE CLICK EXEMPTÉ DE CUIVRE IN VIVO POUR L'ADMINISTRATION D'AGENTS THÉRAPEUTIQUES ET/OU DIAGNOSTIQUES

Publication

**EP 2646055 A4 20150408 (EN)**

Application

**EP 11846041 A 20111202**

Priority

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- US 41908210 P 20101202
- US 2011063006 W 20111202

Abstract (en)

[origin: WO2012075361A2] The present application discloses compositions and methods of synthesis and use involving click chemistry reactions for in vivo or in vitro formation of therapeutic and/or diagnostic complexes. Preferably, the diagnostic complex is of use for 18F imaging, while the therapeutic complex is of use for targeted delivery of chemotherapeutic drugs or toxins. More preferably, a chelating moiety or targetable construct may be conjugated to a targeting molecule, such as an antibody or antibody fragment, using a click chemistry reaction involving cyclooctyne, nitron or azide reactive moieties. In most preferred embodiments, the click chemistry reaction occurs in vivo. In vivo click chemistry is not limited to 18F labeling but can be used for delivering a variety of therapeutic and/or diagnostic agents.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] WO 2009135015 A2 20091105 - IMMUNOMEDICS INC [US], et al
- [X] WO 2010017500 A2 20100211 - IMMUNOMEDICS INC [US], et al
- [A] MARIK J ET AL: "Click for PET: rapid preparation of [ $^{18}\text{F}$ ]fluoropeptides using Cu<math>\text{I}</math> catalyzed 1,3-dipolar cycloaddition", TETRAHEDRON LETTERS, PERGAMON, GB, vol. 47, no. 37, 11 September 2006 (2006-09-11), pages 6681 - 6684, XP025004843, ISSN: 0040-4039, [retrieved on 20060911], DOI: 10.1016/J.TETLET.2006.06.176
- See references of WO 2012075361A2

Designated contracting state (EPC)

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**WO 2012075361 A2 20120607**; **WO 2012075361 A3 20120726**; AU 2011336396 A1 20130418; AU 2011336396 B2 20160204; CA 2814962 A1 20120607; CN 103221072 A 20130724; EP 2646055 A2 20131009; EP 2646055 A4 20150408

DOCDB simple family (application)

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