

Title (en)

DISPLACEABLE LINKER SOLID PHASE CHEMICAL LIGATION

Title (de)

CHEMISCHE FESTPHASENLIGATION MIT AUSTAUSCHBAREM LINKER

Title (fr)

LIGATION CHIMIQUE EN PHASE SOLIDE EFFECTUEE AVEC UN AGENT DE LIAISON MOBILE

Publication

**EP 1631597 A4 20070711 (EN)**

Application

**EP 04752449 A 20040517**

Priority

- US 2004015435 W 20040517
- US 47329403 P 20030522

Abstract (en)

[origin: WO2004105685A2] The invention is directed to methods and compositions for aqueous-compatible solid phase chemical ligation. The methods and compositions of the invention involve the chemical ligation of first and second polymers, where the first polymer is attached to a support through a displaceable linker. The displaceable linker can be cleaved or otherwise displaced under aqueous conditions compatible with subsequent removal of the ligation product from the solid support. The methods and compositions of the invention are particularly useful for ligation of peptides and polypeptides on a solid support. The ligation system of the invention is applicable to a wide variety of molecules, and thus can be exploited to generate ligated polymers including peptides, polypeptides and other amino acid containing polymers.

IPC 8 full level

**C07K 1/04** (2006.01); **C07K 1/107** (2006.01); **C08B 37/00** (2006.01); **C08F 2/00** (2006.01)

IPC 8 main group level

**A61K** (2006.01)

CPC (source: EP)

**C07K 1/042** (2013.01); **C07K 1/1072** (2013.01)

Citation (search report)

- [E] WO 2004060925 A2 20040722 - GRYPHON THERAPEUTICS INC [US], et al
- [A] K NGU & D V PATEL: "Preparation of acid-labile resins with halide linkers and their utility in solid phase organic synthesis", TETRAHEDRON LETTERS., vol. 38, no. 6, 1997, NL ELSEVIER, AMSTERDAM., pages 973 - 976, XP002918776
- See references of WO 2004105685A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL HR LT LV MK

DOCDB simple family (publication)

**WO 2004105685 A2 20041209; WO 2004105685 A3 20050609; EP 1631597 A2 20060308; EP 1631597 A4 20070711**

DOCDB simple family (application)

**US 2004015435 W 20040517; EP 04752449 A 20040517**