

Title (en)
FUNCTIONALIZED POLYMERS FOR SITE-SPECIFIC ATTACHMENT

Title (de)
FUNKTIONSTÜCHTIGE POLYMERE FÜR LAGESPEZIFISCHE BINDUNG

Title (fr)
POLYMERES FONCTIONNALISES DESTINES A UNE LIGATION DIRIGEE

Publication
EP 0788375 A2 19970813 (EN)

Application
EP 95944855 A 19951109

Priority

- IB 9501175 W 19951109
- US 33685094 A 19941109
- US 39469095 A 19950223

Abstract (en)
[origin: WO9641813A2] Provided are organic polymers, e.g. poly(ethylene glycol), functionalized with an amino-oxy oxime-forming group and methods for their preparation and use in site-specific, chemoselective ligation to an aldehyde(or ketone)-functionalized target macromolecule or surface under mild ligation conditions. Multi-polymer-containing amino-oxy-functionalized or aldehyde(or ketone)-functionalized polymer constructs are also provided that allow site-specific, chemoselective ligation under mild conditions of the construct (and thus all of its polymers) to a single site on a target macromolecule via an oxime bond. Families of functionalized polymer constructs are also provided wherein each construct differs in topology but not in molecular weight (average) from the others in the same family. Methods for their use include the systematic modification of a target macromolecule to rapidly create a family of target molecules, preferably biologically important proteins, differing in topology but not molecular weight, from which family can be identified macromolecules having desired biological or physical properties, such as enhanced pharmacokinetic behavior.

IPC 1-7
A61K 47/48

IPC 8 full level
A61K 47/48 (2006.01); **C07K 1/107** (2006.01)

CPC (source: EP)
A61K 47/60 (2017.07); **A61K 47/61** (2017.07); **A61K 47/62** (2017.07); **C07K 1/1077** (2013.01)

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9641813 A2 19961227; **WO 9641813 A3 19970522**; AU 7327296 A 19970109; CA 2204726 A1 19961227; EP 0788375 A2 19970813; EP 0788375 A3 19970917

DOCDB simple family (application)
IB 9501175 W 19951109; AU 7327296 A 19961109; CA 2204726 A 19951109; EP 95944855 A 19951109