

Title (en)  
TARGETING MACROMOLECULAR PRODRUGS TO T LYMPHOCYTES

Title (de)  
GEGEN T-LYMPHOZYTEN ZIELGERICHTETE MAKROMOLEKULARE ARNZNEIMITTEL-VORSTUFEN

Title (fr)  
PROMEDICAMENTS MACROMOLECULAIRE DE CIBLAGE DES LYMPHOCYTES T

Publication  
**EP 0904109 A4 20021104 (EN)**

Application  
**EP 97915001 A 19970312**

Priority  
• US 9703832 W 19970312  
• US 61669396 A 19960315

Abstract (en)  
[origin: WO9733618A1] A composition for intracellular delivery of a chemical agent into a T cell comprises a receptor-binding and endocytosis-inducing ligand and a chemical agent coupled to a water soluble polymer. The ligand binds to a receptor on T lymphocytes and elicits endocytosis of the composition. The composition also includes a spacer for coupling the chemical agent and the ligand to the polymer. Chemical agents can include cytotoxins, transforming nucleic acids, gene regulators, labels, antigens, drugs, and the like. A preferred water soluble polymer is a copolymer of N-(2-hydroxypropyl)methacrylamide (HPMA). The composition can further comprise a carrier such as a water soluble polymer, liposome, or particulate. Methods of using these compositions for delivering a chemical agent in vivo or in vitro are also disclosed.

IPC 1-7  
**A61K 39/395**

IPC 8 full level  
**A61K 9/127** (2006.01); **A61K 31/704** (2006.01); **A61K 47/32** (2006.01); **A61K 47/36** (2006.01); **A61K 47/42** (2006.01); **A61K 47/48** (2006.01); **C07K 14/705** (2006.01); **C07K 16/28** (2006.01)

CPC (source: EP KR)  
**A61K 39/395** (2013.01 - KR); **A61K 47/6425** (2017.07 - EP); **C07K 14/70596** (2013.01 - EP); **C07K 16/2896** (2013.01 - EP)

Citation (search report)  
• [A] WO 9004176 A1 19900419 - SCRIPPS CLINIC RES [US]  
• [Y] RIHOVA B ET AL: "SELECTIVITY OF ANTIBODY-TARGETED ANTHRACYCLINE ANTIBIOTICS ON T LYMPHOCYTES", JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol. 5, no. 3, 1990, pages 249 - 266, XP001106402, ISSN: 0883-9115  
• [Y] RIHOVA B: "BIOLOGICAL PROPERTIES OF TARGETABLE POLYUN-(1-HYDROXYPROPYL)- METHACRYLAMIDE-ANTIBODY CONJUGATES", JOURNAL OF CONTROLLED RELEASE, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 2, 1985, pages 289 - 310, XP002910382, ISSN: 0168-3659  
• [YD] HEDRICK J ET AL: "INTERACTION BETWEEN EPSTEIN-BARR VIRUS AND A T CELL LINE HSB-2 VIA A RECEPTOR PHENOTYPICALLY DISTINCT FROM COMPLEMENT RECEPTOR TYPE 2", EUROPEAN JOURNAL OF IMMUNOLOGY, vol. 22, no. 5, 1992, pages 1123 - 1131, XP001106487, ISSN: 0014-2980  
• See references of WO 9733618A1

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

DOCDB simple family (publication)  
**WO 9733618 A1 19970918**; AU 2205797 A 19971001; AU 708304 B2 19990729; BR 9711081 A 20000111; CA 2247432 A1 19970918; EP 0904109 A1 19990331; EP 0904109 A4 20021104; JP 2001519762 A 20011023; KR 19990087839 A 19991227; ZA 972087 B 19971024

DOCDB simple family (application)  
**US 9703832 W 19970312**; AU 2205797 A 19970312; BR 9711081 A 19970312; CA 2247432 A 19970312; EP 97915001 A 19970312; JP 53278097 A 19970312; KR 19980709230 A 19980824; ZA 972087 A 19970311