

Title (en)
WATER SOLUBLE MULTI-BIOTIN-CONTAINING COMPOUNDS

Title (de)
WASSERLÖSLICHE MULTI-BIOTIN-VERBINDUNGEN

Title (fr)
COMPOSES HYDROSOLUBLES MULTI-BIOTINE

Publication
EP 1196199 A4 20020619 (EN)

Application
EP 00938025 A 20000601

Priority
• US 0015081 W 20000601
• US 32426799 A 19990602

Abstract (en)
[origin: WO0072802A2] Water soluble discrete multi-biotin-containing compounds with at least three (3) biotin moieties are disclosed. The water soluble biotin-containing compounds may additionally comprise one or more moieties that confer resistance to cleavage by biotinidase or that is cleavable <i>in vitro</i> or <i>in vivo</i>. The discrete multi-biotin-containing compounds may include a reactive moiety that provides a site for reaction with yet another moiety, such as a targeting, diagnostic or therapeutic functional moiety. Biotinylation reagents comprising water soluble linker moieties are also disclosed and may additionally comprise a biotinidase protective group. Methods for amplifying the number of sites for binding biotin-binding proteins at a selected target using multi-biotin compounds are also disclosed.

IPC 1-7
A61K 51/00; **C12P 13/18**; **C07D 495/04**; **C07D 519/00**; **A61K 47/48**; **A61K 51/10**

IPC 8 full level
C07D 495/04 (2006.01); **C07D 519/00** (2006.01)

CPC (source: EP)
C07D 495/04 (2013.01); **Y02P 20/55** (2015.11)

Citation (search report)
• [X] WO 9729114 A1 19970814 - UNIV WASHINGTON [US]
• [X] WILBUR D S ET AL: "BIOTIN REAGENTS FOR ANTIBODY PRETARGETING. 3. SYNTHESIS, RADIOIODINATION, AND EVALUATION OF BIOTINYLATED STARBURST DENDRIMERS", BIOCONJUGATE CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 9, no. 6, 1 November 1998 (1998-11-01), pages 813 - 825, XP000786597, ISSN: 1043-1802
• [X] WILBURG D S ET AL: "BIOTIN REAGENTS FOR ANTIBODY PRETARGETING. 2. SYNTHESIS AND IN VITRO EVALUATION OF BIOTIN DIMERS AND TRIMERS FOR CROSS-LINKING OF STREPTAVIDIN", BIOCONJUGATE CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 8, no. 6, 1997, pages 819 - 832, XP002905442, ISSN: 1043-1802
• See references of WO 0072802A2

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

DOCDB simple family (publication)
WO 0072802 A2 20001207; **WO 0072802 A3 20020207**; **WO 0072802 A8 20010419**; AU 5312100 A 20001218; EP 1196199 A2 20020417; EP 1196199 A4 20020619

DOCDB simple family (application)
US 0015081 W 20000601; AU 5312100 A 20000601; EP 00938025 A 20000601