

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 November 2010 (18.11.2010)

PCT

(10) International Publication Number
WO 2010/131962 A2

(51) International Patent Classification:

C07C 271/22 (2006.01) *C07C 323/59* (2006.01)
A61K 31/198 (2006.01) *C07C 391/00* (2006.01)
C07K 1/13 (2006.01)

(21) International Application Number:

PCT/NL2010/050277

(22) International Filing Date:

12 May 2010 (12.05.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

09160430.6	15 May 2009 (15.05.2009)	EP
61/178,616	15 May 2009 (15.05.2009)	US

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD,
SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report (Rule 48.2(g))

(54) Title: LYSINE COMPOUNDS AND THEIR USE IN SITE- AND CHEMOSELECTIVE MODIFICATION OF PEPTIDES
AND PROTEINS

(57) Abstract: The present invention concerns new thiolysine and selenolysine compounds that can be used as building blocks for peptides and proteins, providing ligation handles for site- and chemoselective modification of said peptides and proteins. In particular, the invention provides. In particular, the invention provides (the use of) the compounds 5-thiolysine (also referred to as δ -thiolysine); 4-thiolysine (also referred to as γ -thiolysine); 5-selenolysine (also referred to as δ -selenolysine) and 4-selenolysine (also referred to as γ -selenolysine). The positioning of the thiol or selenol group at the respective carbon atom allows for a very efficient intramolecular transfer reaction to take place after conjugation with a selected ligand, and the thiol or selenol group may subsequently be removed using reported procedures, thereby restoring the native lysine structure, or be used as an additional conjugation handle. The methodology is fast and gives well-defined material.

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