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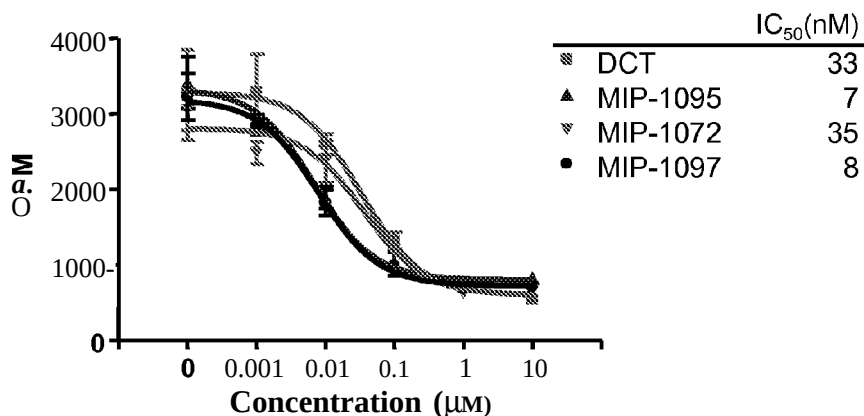
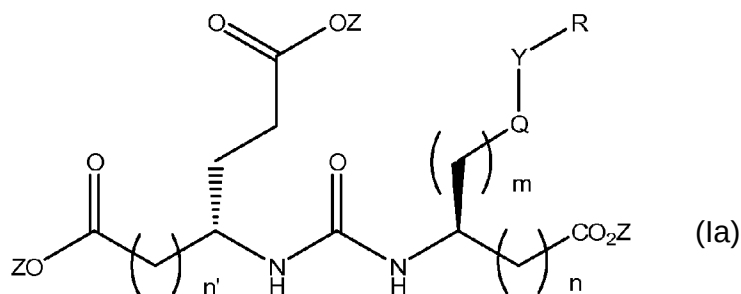
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[Continued on next page]

(54) **Title:** HETERODIMERS OF GLUTAMIC ACID

(57) Abstract: Compounds of Formula (Ia), wherein R is a C₆-C₁₂ substituted or unsubstituted aryl, a C₆-C₁₂ substituted or unsubstituted heteroaryl, a C₁-C₆ substituted or unsubstituted alkyl or -NR'R', Q is C(O), O, NR', S, S(O)₂, C(O)₂ (CH₂)_p Y is C(O), O, NR', S, S(O)₂, C(O)₂ (CH₂)_p Z is H or C₁-C₄ alkyl, R' is H, C(O), S(O)₂, C(O)₂, a C₆-C₁₂ substituted or unsubstituted aryl, a C₆-C₁₂ substituted or unsubstituted heteroaryl or a C₁-C₆ substituted or unsubstituted alkyl, when substituted, aryl, heteroaryl and alkyl are substituted with halogen, C₆-C₁₂ heteroaryl, -NR'R' or COOZ, which have diagnostic and therapeutic properties, such as the treatment and management of prostate cancer and other diseases related to NAALADase inhibition. Radiolabels can be incorporated into the structure through a variety of prosthetic groups attached at the X amino acid side chain via a carbon or hetero atom linkage.



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According to International Patent Classification (IPC) or to both national classification and IPC

B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

USPC- 424/1 11

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
PubWEST (DB=USPT, USOC, PGPB, EPAB, JPAB), USPC- 424/1 1,1 65,9 1,9 3,153,165,936 3,534/10,16,14,540/474,530/390,
402,514/75,574,562/8,24

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST (DB=USPT, USOC, PGPB, EPAB, JPAB), Google Scholar, Google Patents

Search Terms PSMA binding ligand, PSMA binding moiety, glutamat\$, urea, lysine, technetium, rhenium near5 (co)3, ammo acid, dim β r, glutamat θ near dimer, analgesic

C DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X --- Y	US 2004/0054190 A1 (POMPER et al) 18 Mar 2004 (18 03 2004), para [0036]-[0037], [0025], (0054), [0102], [0108], [0044]-[0048]	1, 2, 4-6, 12-15, 29, 32, 33, 40-43 ----- 3, 7-1 1, 16-28, 30, 34-39, 44-65
Y	US 6,528,499 B1 (KOZIKOWSKI et al) 04 Mar 2003 (04 03 2003), col 9, ln 16-22, col 16, ln 33 -40	3, 7-1 1, 16-28, 30, 34-39, 44-65
Y	US 2006/0198785 A1 (SANTOS et al) 07 S β p 2006 (07 09 2006), Fig 6	16-17, 19, 44, 54, 60-61 , 63, 65

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Date of the actual completion of the international search

01 Feb 2008 (01 02 2008)

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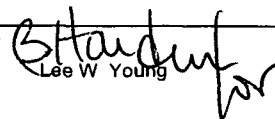
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