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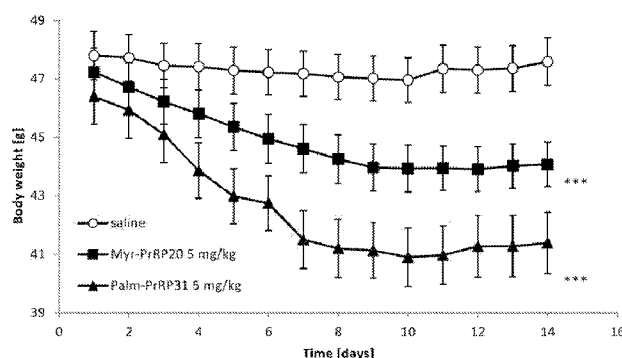


FIG. 9

(57) Abstract: Lipidated peptides, analogs of both forms of the prolactin-releasing peptide, PrRP31 and PrRP20, represent anorexi-genic compounds that lower food intake and function in the brain after peripheral administration. The analogs PrRP31 and PrRP20 lipidated at the N-terminus by myristic or palmitic acids bind with high affinity to the endogenous receptor GPR10 in the rat pituitary cell line RC-4B/C and CHO cell line with transfected human receptor. These lipidated peptides also significantly decrease, in a dose-dependent manner, the food intake in fasted mice and have similar effects in comparable doses as centrally administered natural PrRP31, these effects are, however, stronger and longer lasting. Lipidation of an effective anorexigenic neuropeptide PrRP induces a central effect after peripheral administration and thus makes the lipidated analogs of PrRP a promising anti-obesity drug.

INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K31/00 C07K14/575 G01N33/78
ADD.

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)

A61K C07K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

EP0-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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International application No
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International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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