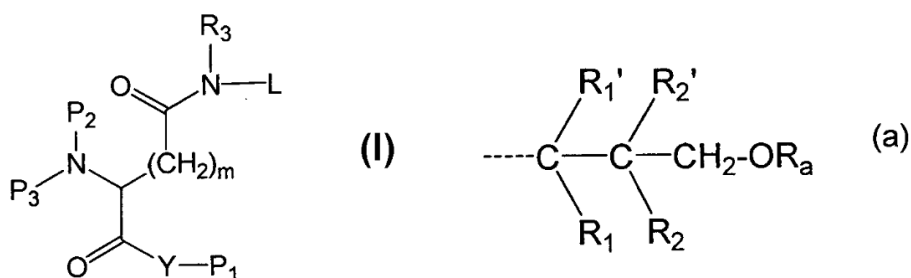


ABSTRACT

AMINOACID LIPIDS

The present invention is directed to a new class of lipids, more specifically ether-lipids having a polar headgroup, as well as vesicles comprising these lipids, methods of their preparation as well as their uses in medical applications, wherein the ether-lipids are represented by general formula (I) wherein Y represents O, N, S or a covalent bond; P₁ represents H, an Y-protecting group or an Y-activating group or a spacer group; P₂, P₃ represent independently of each other H, an amino-protecting group or a spacer group, or P₂ and P₃ form together with the N to which they are bound a ring structure; L is a group of formula (a) wherein the dashed line represents the linkage to N; R₁ represents H or a group of formula -(CH₂)₂-OR_{b1}; R₁ represents H or a group of formula -(CH₂)₂-OR_{b2}, R₂ represents H or a group of formula -CH₂-OR_c; R₂ Represents H or a group of formula -OR_d or -CH₂-OR_c, R₂ represents H or a group of formula -(CH₂)₂-OR_e or -(CH₂)₃-OR_e; R_a, R_{b1}, R_{b2}, R_c, R_d, R_e represent independently of each other a saturated or unsaturated, straight or branched hydrocarbon chain, and m is 1, 2 or 3; with the proviso that at least one of R₁, R₁', R₂, R₂', R₃ is not H.



[No drawings]