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[54] **INTERMEDIATES FOR SYNTHESIZING BH_4 AND ITS DERIVATIVES**

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[52] **U.S. Cl.** **544/258**; 435/122; 544/320

[58] **Field of Search** 544/258; 514/258

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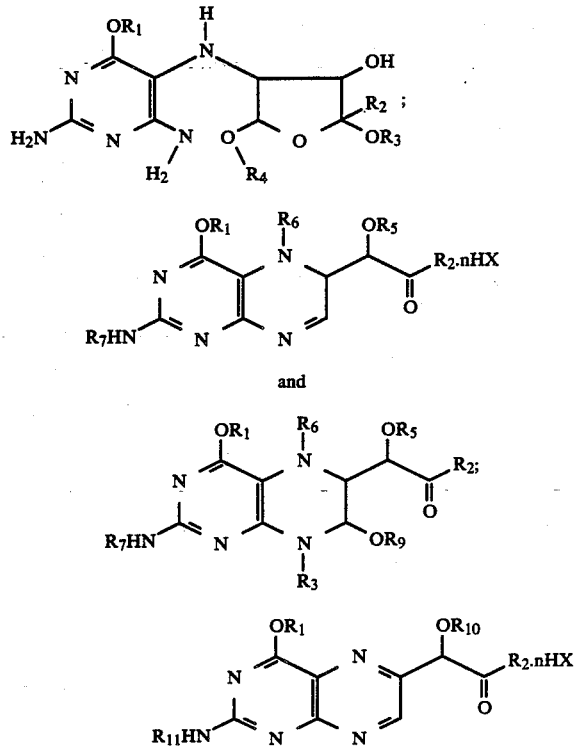
[57] **ABSTRACT**

The present invention relates to intermediates for synthesizing BH_4 and derivatives thereof. The intermediates are shown as follows:



wherein R_1 is a hydrogen atom, alkyl, aralkyl, or aryl group; R_2 is an alkyl, hydroxyalkyl, or polyhydroxyalkyl group; R_3 and R_4 are the same or different and represent alkyl, aralkyl, or aryl group; R_5, R_6, R_7, and R_8 are the same or different and represent a hydrogen atom or acyl group; R_9 is an alkyl, aralkyl, or aryl group; R_{10} and R_{11} are the same or different and represent a hydrogen atom or acyl group; n is an integer of 5 or less; and HX is an acid. The invention also relates to a process for the preparation of L-biopterin.

3 Claims, No Drawings