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(54) **HETEROCYCLIC COMPOUND BASED ON N^6-SUBSTITUTED ADENINE, METHODS, OF THEIR PREPARATION, THEIR USE FOR PREPARATION OF DRUGS, COSMETIC PREPARATIONS AND GROWTH REGULATORS, PHARMACEUTICAL PREPARATIONS, COSMETIC PREPARATIONS AND GROWTH REGULATORS CONTAINING THESE COMPOUNDS**

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A61P 35/00	(2006.01)
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(58) **Field of Classification Search** 544/277; 514/263.4

See application file for complete search history.

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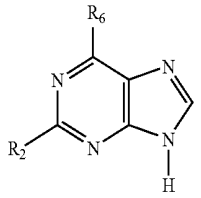
(57) **ABSTRACT**

Heterocyclic derivatives based on N^6-substituted adenine of, e.g.,a formula:



wherein R2 is hydrogen, R6 is R6'-X, X is —NH—, and R6' is substituted phenyl or substituted benzyl. The derivatives possess anticancer, mitotic, imunosuppressive and antisenescent properties for plant, animal and human cells, and methods of their preparation are disclosed. Included are also pharmaceutical compositions, cosmetic preparations and growth regulators, which contain these derivatives as active compound and the use of these derivatives for the preparation of drugs, cosmetic preparations, in biotechnological processes, in cosmetics and in agriculture.

6 Claims, 10 Drawing Sheets