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(54) Title: 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

(57) Abstract: New heterocyclic derivatives of formula (1) based on N^6-substituted adenine, having anticancer, mitotic, imunosuppressive and antisenescent propoerties for plant, animal and human cells and methods of their preparation. 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.