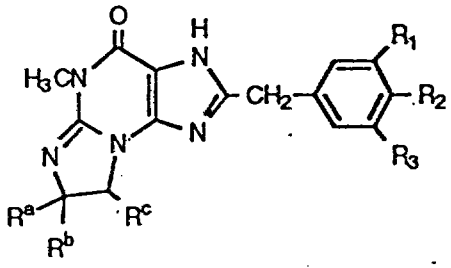
ABSTRACT

2-BENZYL-POLYCYCLIC GUANINE DERIVATIVES AND PROCESS FOR PREPARING THEM

Antihypertensive and bronchodilating compounds of the formula



or a pharmaceutically acceptable salt thereof, and a process for preparing them are disclosed, wherein:

R_1, R_2 and R_3 are hydrogen, lower alkyl, lower alkoxy, halogeno, hydroxy, (di-lower alkyl)amino, 4-morpholinyl, 1-pyrrolidinyl, 1-pyrrolyl, $-CF_3$, $-OCF_3$, phenyl or methoxyphenyl; or R_1 and R_2 together are methylenedioxy; or R_1 and R_2 together with the carbon atoms to which they are attached form a benzene ring; and

R^a is hydrogen and R^b and R^c, together with the carbon atoms to which they are attached, form a saturated ring of 5 carbons; or R^a is lower alkyl, R^b is hydrogen or lower alkyl, and R^c is hydrogen; or R^a, R^b and the carbon atom to which they are attached form a saturated ring of 5-7 carbons, and R^c is hydrogen; or R^a is hydrogen, and R^b, R^c and the carbon atoms to which they are attached form a tetrahydrofuran ring; or R^a and R^b, together with the carbon atom to which they are attached, and R^b and R^c, together with the carbon atoms to which they are attached, each form a saturated ring of 5-7 carbons;

pharmaceutical compositions containing said compounds;

methods of treatment using said compounds; and

a process for preparing polycyclic guanines comprising

a) reducing a nitrosopyrimidine, and treating the reduced nitrosopyrimidine with an acylating reagent to give the amidopyrimidine ;

b) reacting the amidopyrimidine with a halogenating/cyclizing reagent to give a halopurine;

c) reacting, in the presence of a base, the halopurine with an amine to give the substituted aminopurine; and

d) closing the ring of the substituted aminopurine with a suitable dehydrating agent.