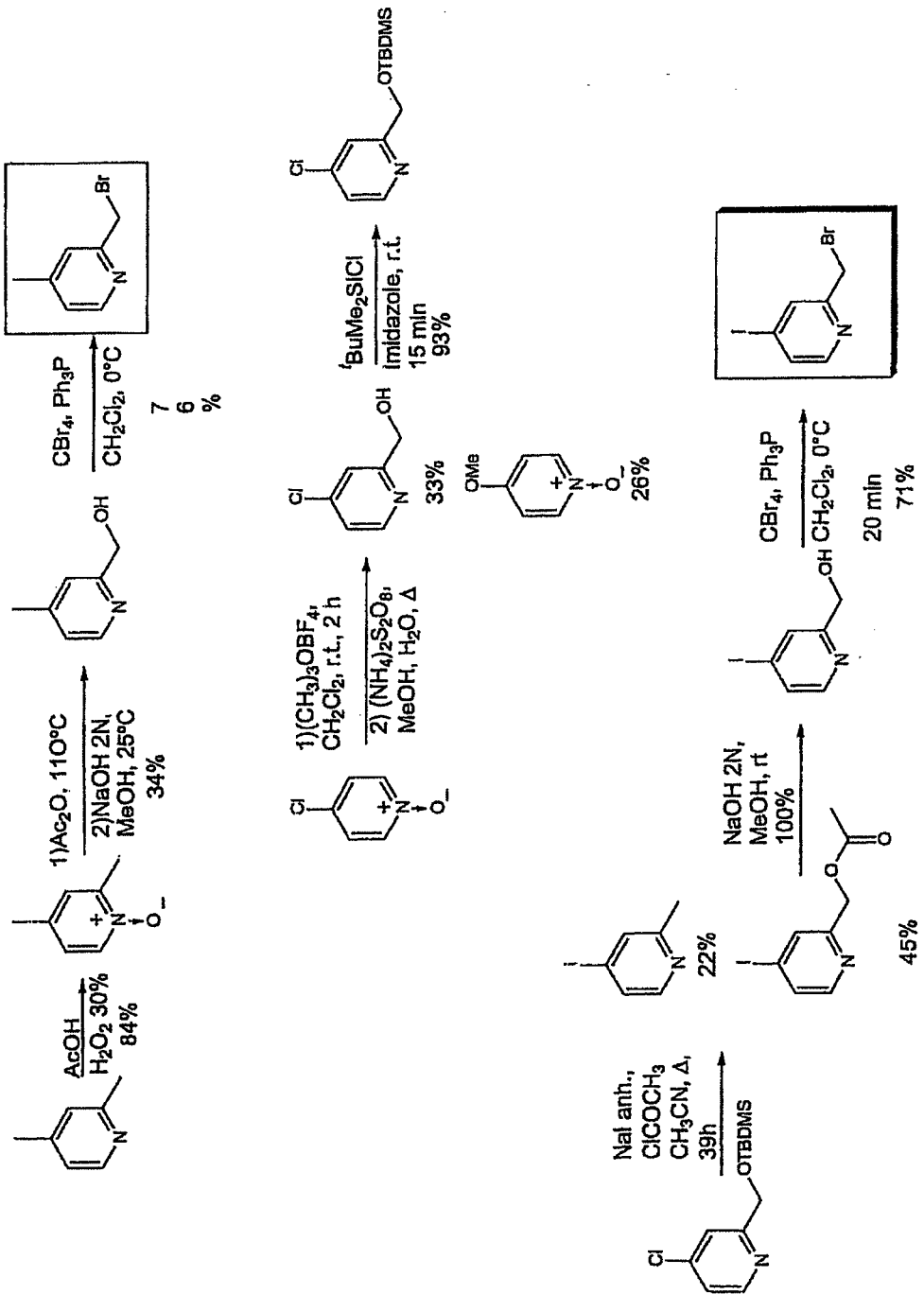


Figure 1. Reaction scheme for the synthesis of the 2-picolyl reactant.

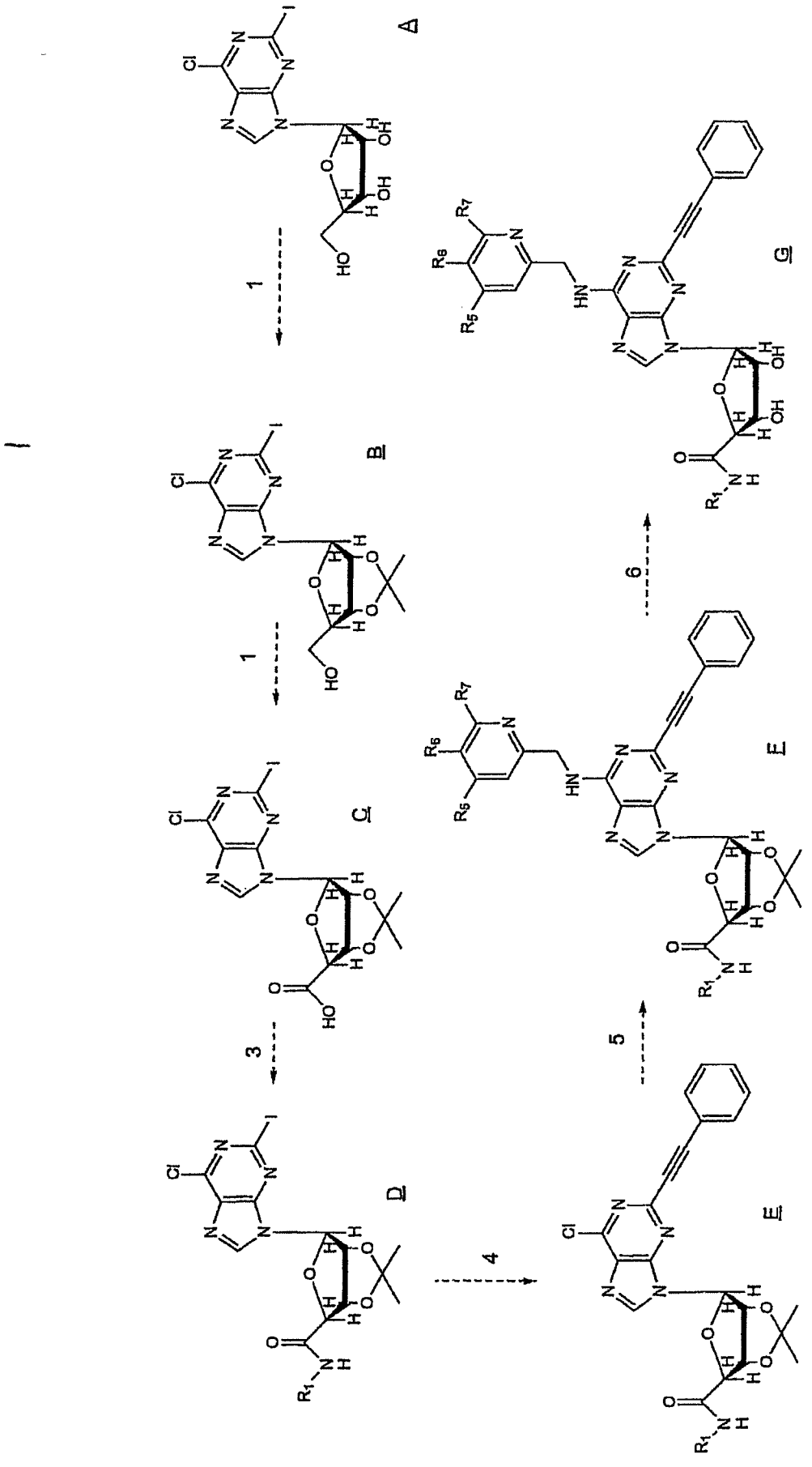


Figure 2 Reaction scheme for the synthesis of the 2-alkenyl substituted compounds of the invention.

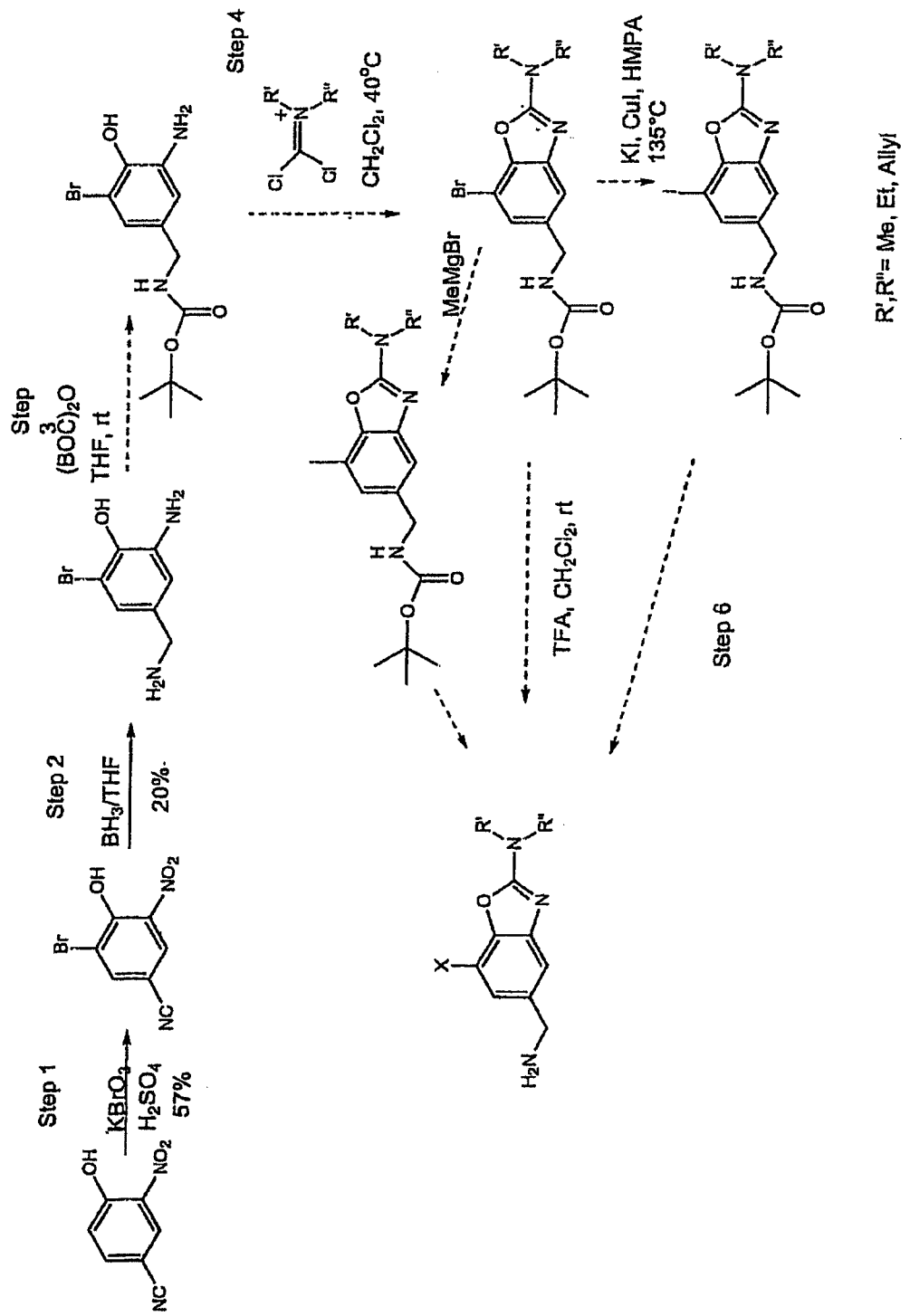


Figure 3 Reaction scheme for synthesis of the benzoxazole reactant.

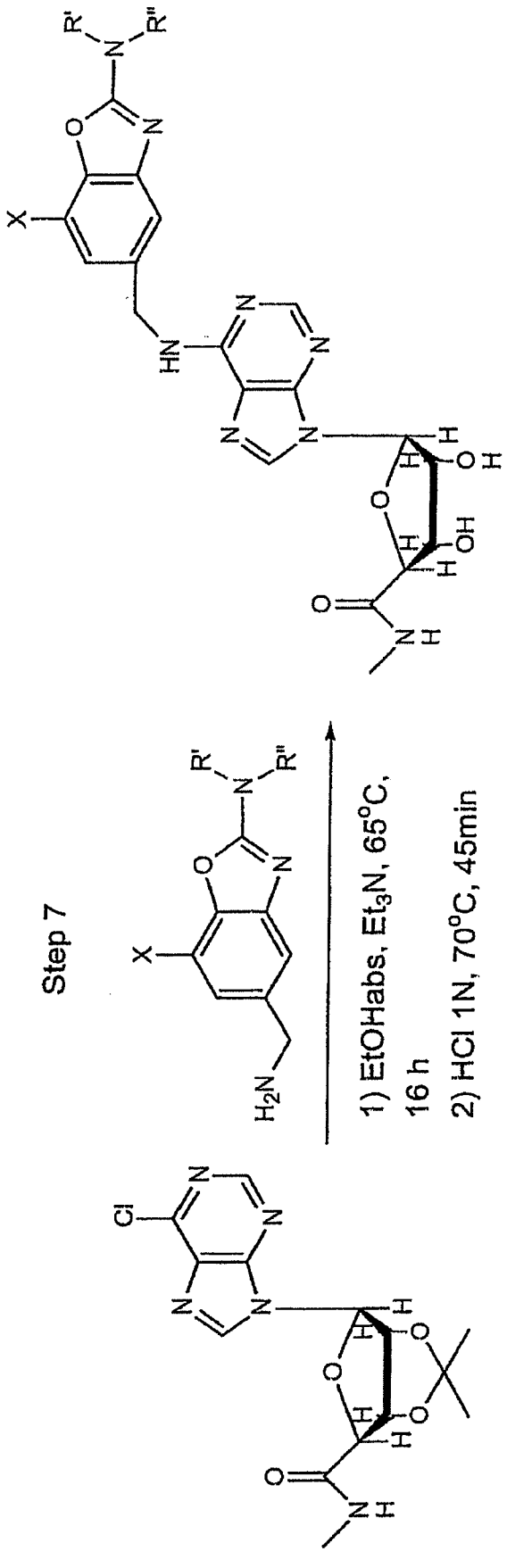


Figure 4 Reaction scheme for the synthesis of compounds in accordance with the second embodiment of the invention.

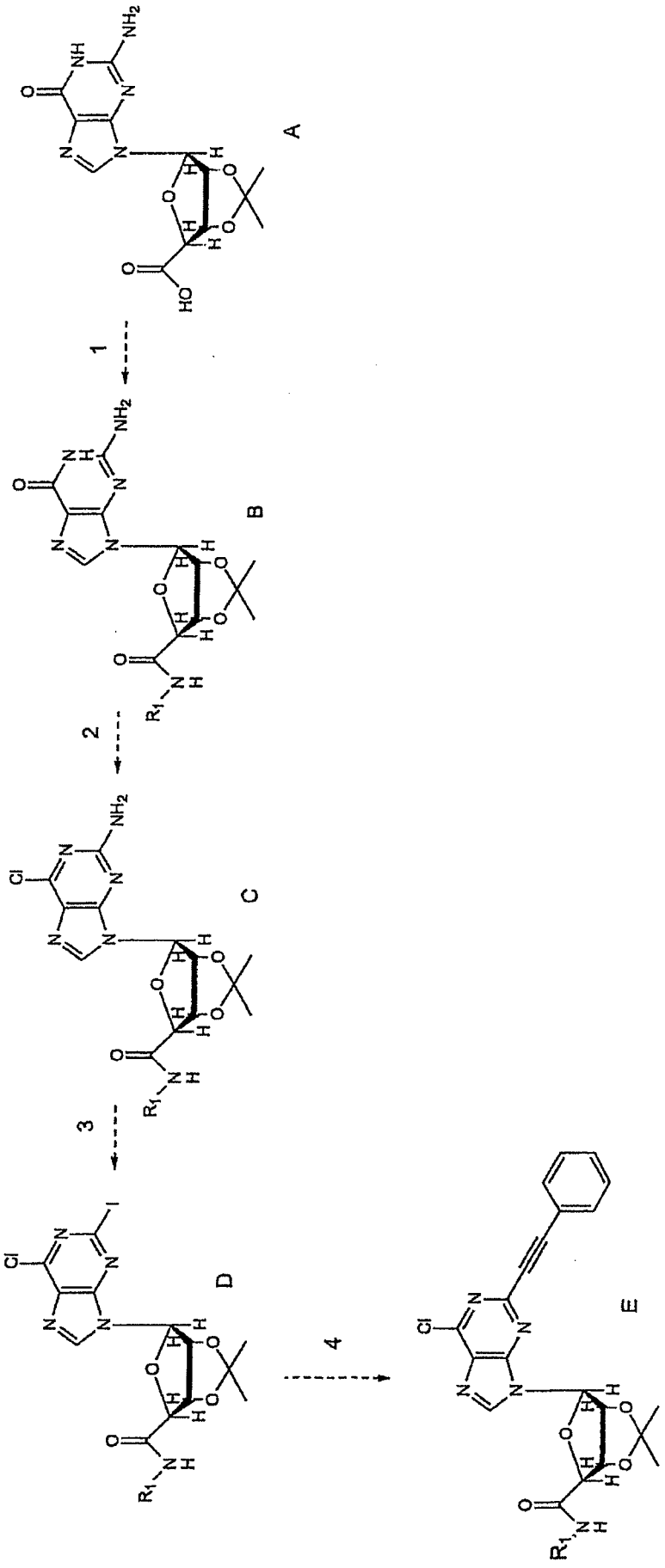


Figure 5 Reaction scheme for synthesis of 2-alkynyl substituted compounds of the invention.

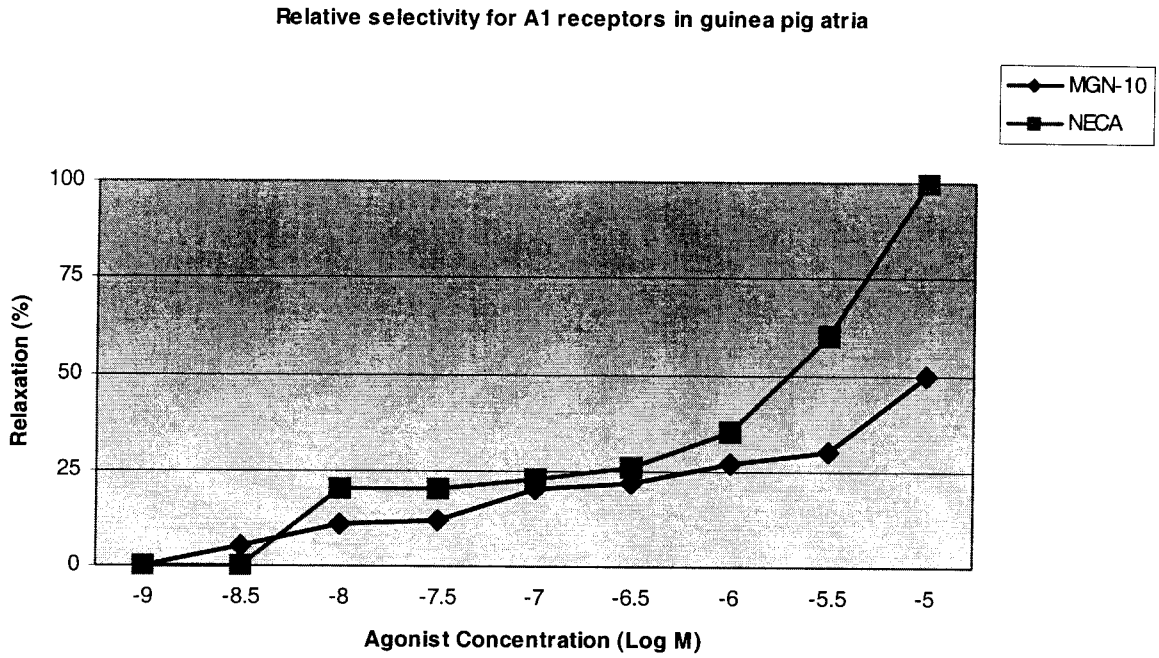


Figure 6 Graph of percentage relaxation of guinea pig atria (precontracted with carbachol) against $\log_{10}$ of concentration (M) of compound 6 (diamond) and IB-NECA (square) agonists.

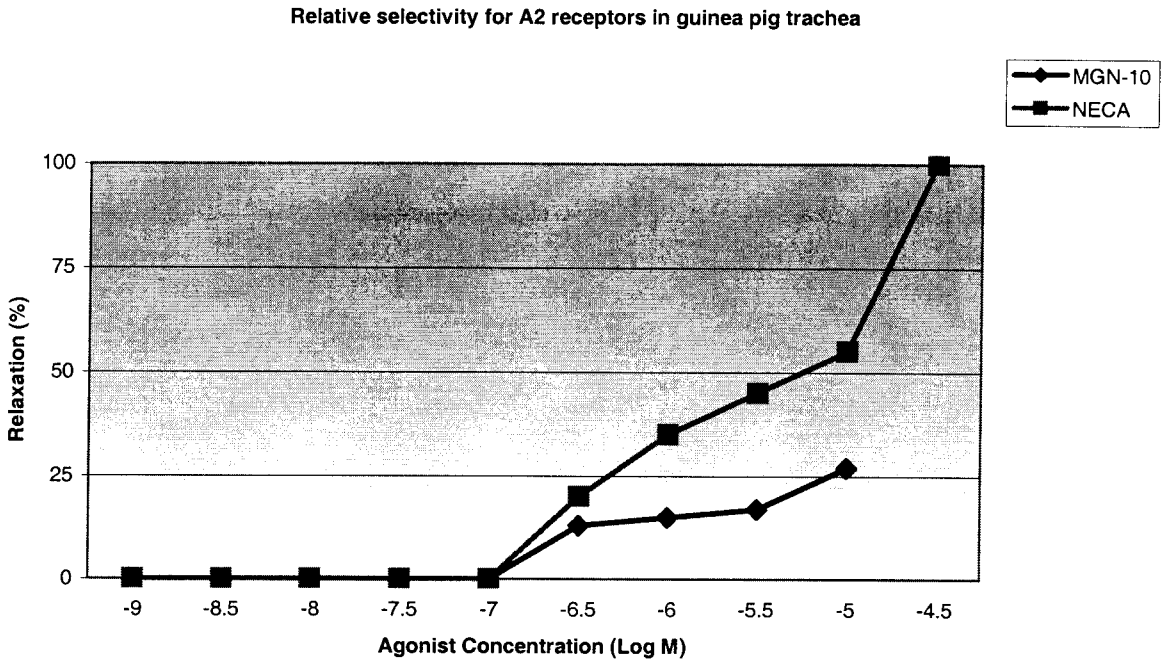


Figure 7 Graph of percentage relaxation of guinea pig trachea (precontracted with carbachol) against $\log_{10}$ of concentration (M) of compound 6 (diamond) and IB-NECA (square) agonists.

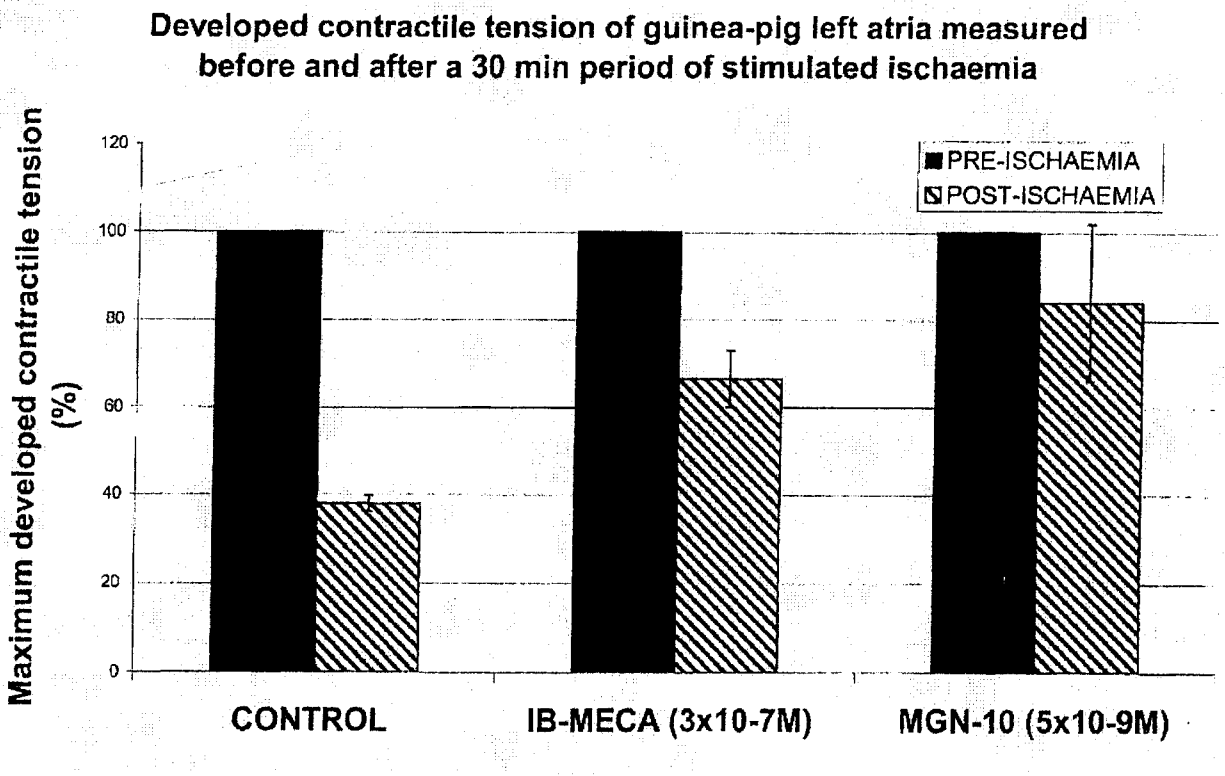
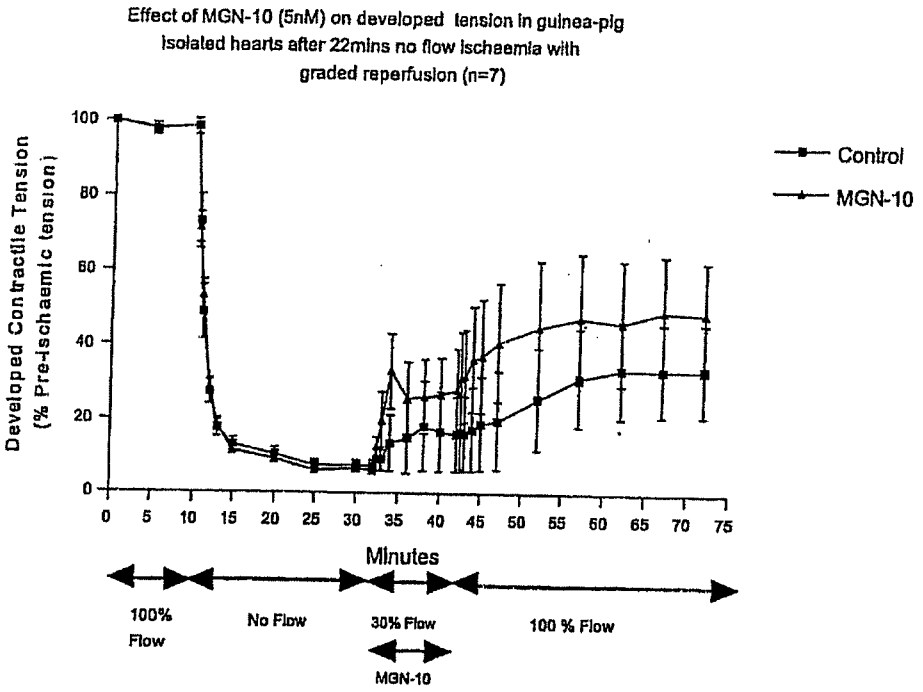


Figure 8 Developed contractile tension of guinea pig left atria measured before and after a 30 minute period of simulated ischaemia, with IB-MECA (3×10^{-7}M) and compound 6 (10^{-9}M) introduced at the onset of regassing


Effect of MGN-10 (5nM) on developed tension in guinea-pig isolated hearts after 22mins no flow ischaemia with graded reperfusion (n=7)
Developed Contractile Tension (% Pre-Ischaemic tension)
100
80
60
40
20
0
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
Minutes
Control
MGN-10
100% Flow
No Flow
30% Flow
100 % Flow
MGN-10