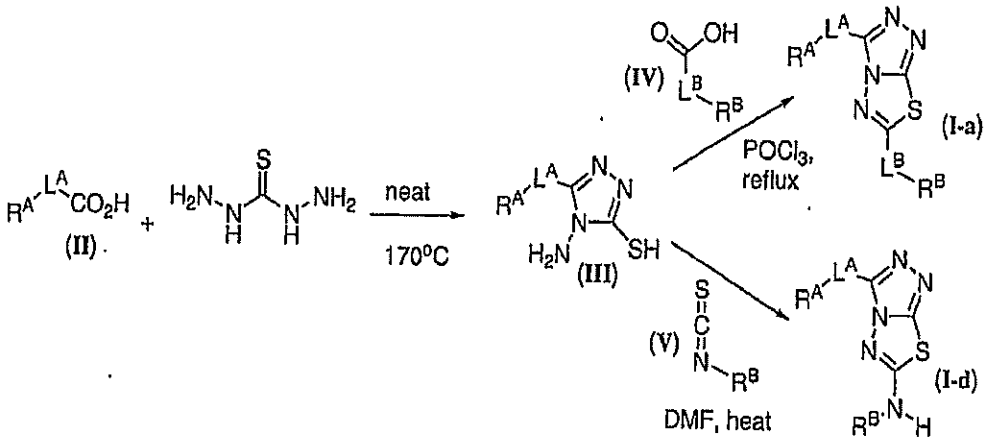


FIGURE 1

~~SUBSTITUTE SHEET (RULE 26)~~

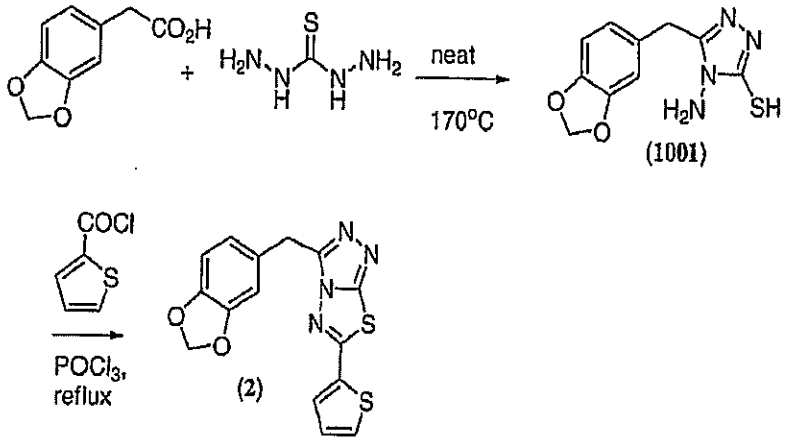

CO2H
S
H2N
NH2
neat
170°C
N
N
N
H2N
SH
O
O
(1001)
COCl
S
POCl3,
reflux
(2)
N
N
N
S
S
O
O

FIGURE 2

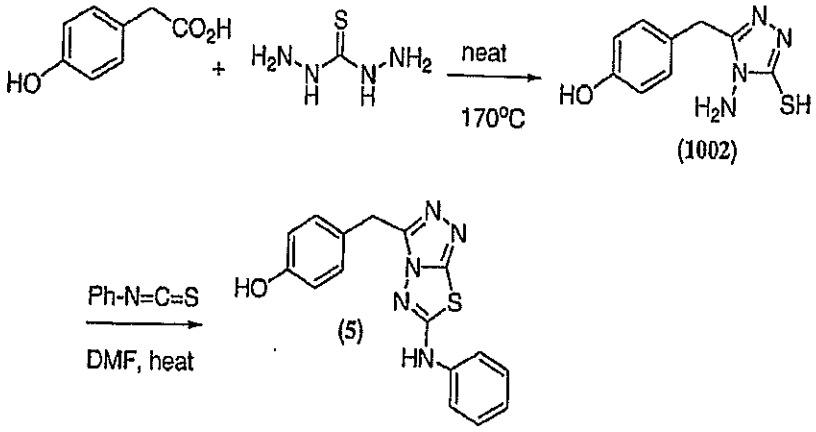

CO2H
HO
+
H2N
S
NH2
neat
170°C
HO
N
N
N
H2N
SH
(1002)
Ph-N=C=S
DMF, heat
HO
(5)
HN

FIGURE 3

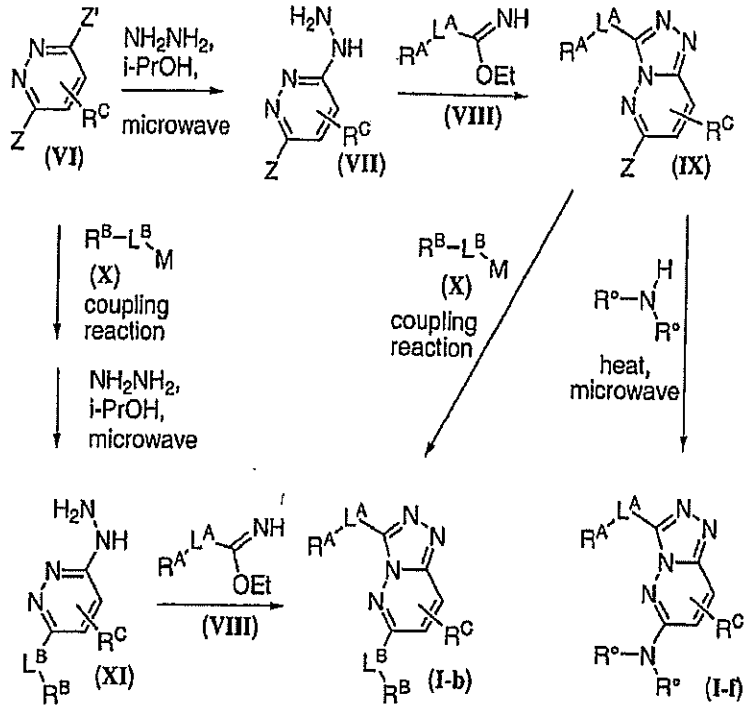


FIGURE 4

~~SUBSTITUTE SHEET (RULE 26)~~

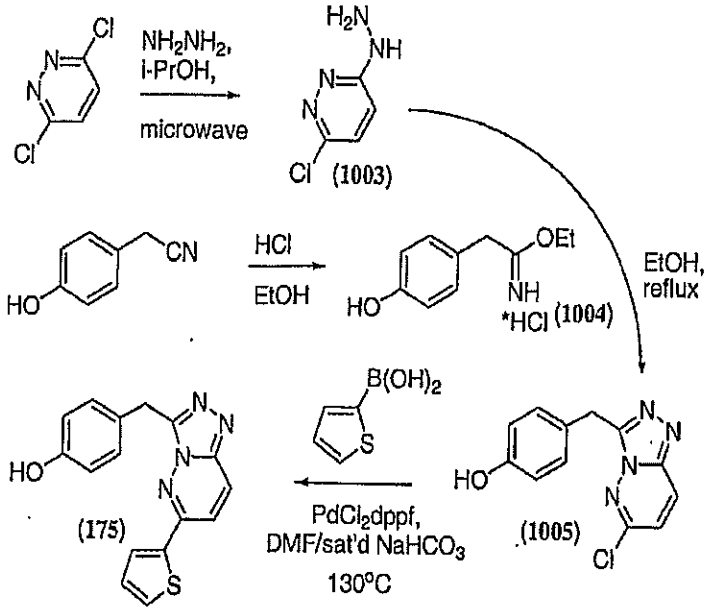

Cl
N
N
Cl
NH2NH2,
i-PrOH,
microwave
H2N
NH
N
N
Cl (1003)
CN
HO
HCl
EtOH
OEt
NH
HO
*HCl (1004)
EtOH,
reflux
B(OH)2
S
HO
N
N
N
N
(175)
S
PdCl2dppf,
DMF/sat'd NaHCO3
130°C
HO
N
N
N
N
(1005)
Cl

FIGURE 5

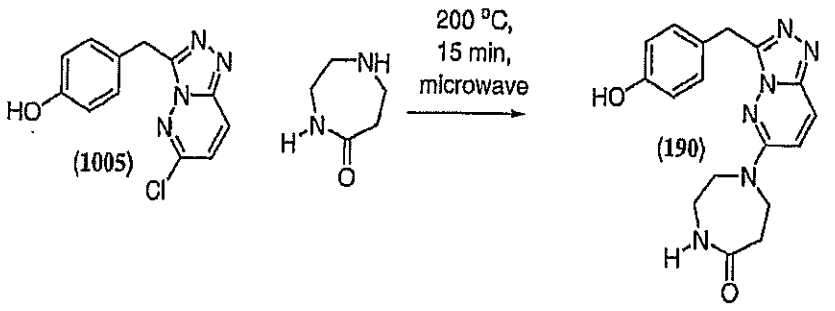


FIGURE 6

~~SUBSTITUTE SHEET (RULE 26)~~

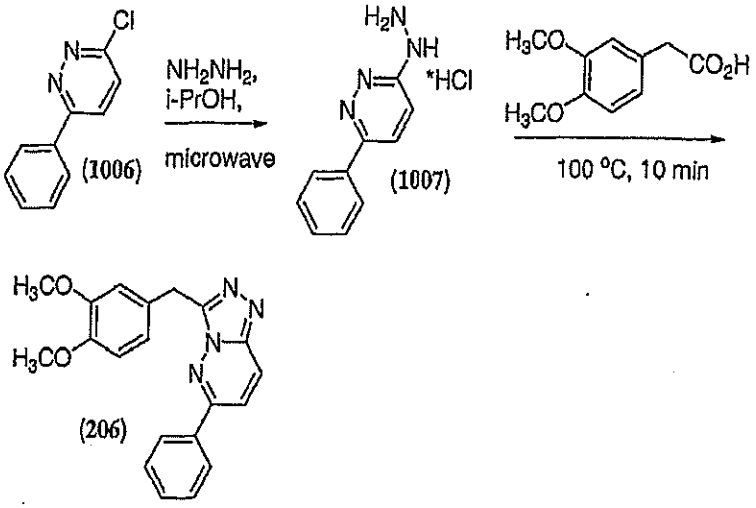

Cl
N
N
(1006)
NH2NH2,
i-PrOH,
microwave
H2N
NH
N
N
•HCl
(1007)
H3CO
H3CO
CO2H
100 °C, 10 min
H3CO
H3CO
N
N
N
N
(206)

FIGURE 7

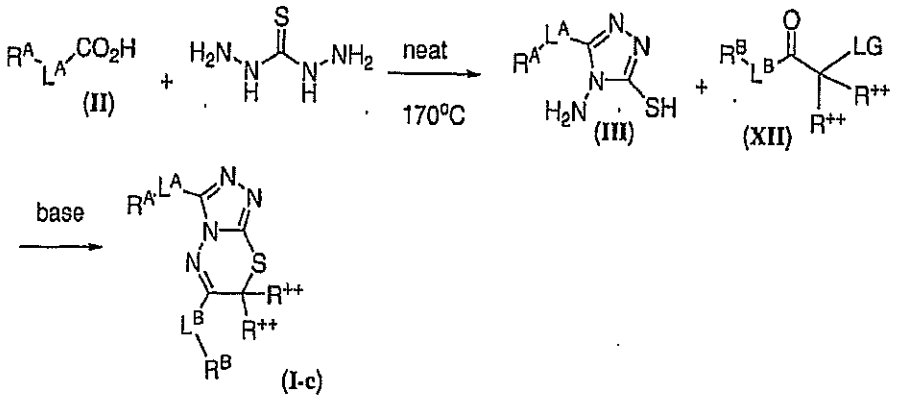


FIGURE 8

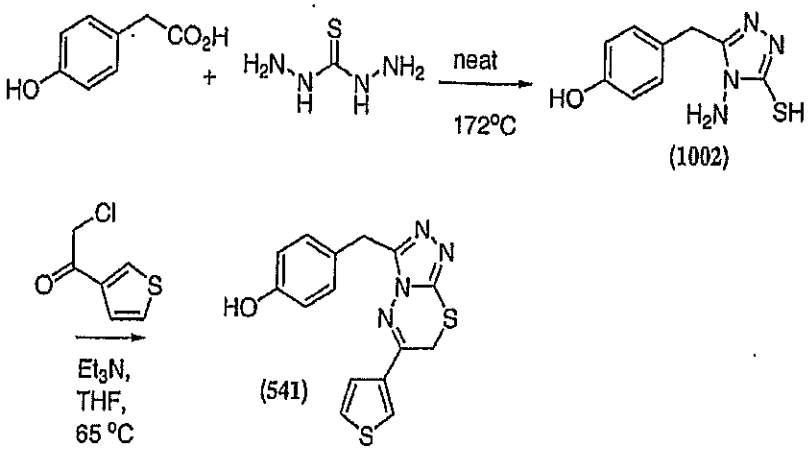


FIGURE 9

~~SUBSTITUTE SHEET (RULE 26)~~