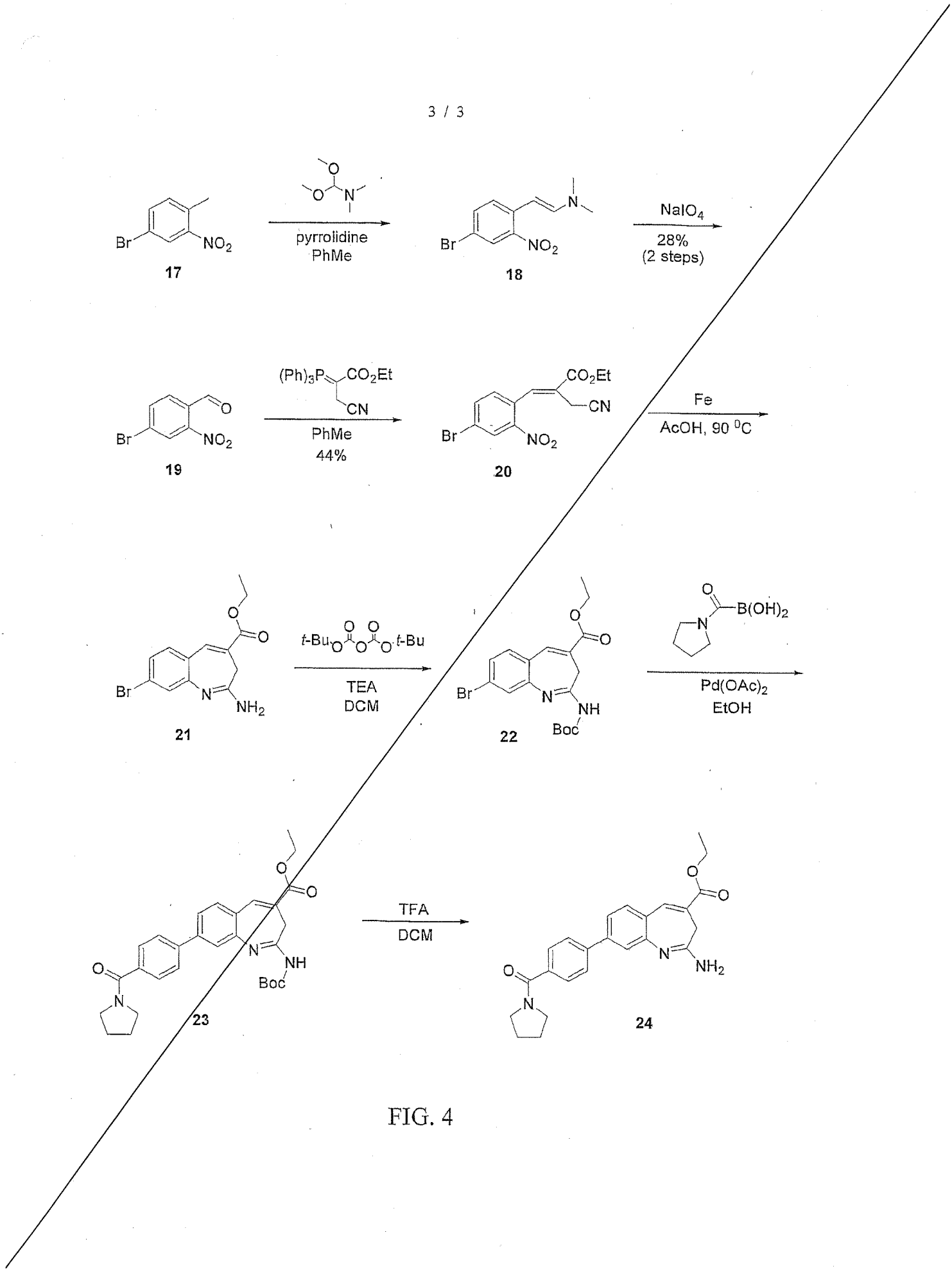

Br
NO2
17
pyrrolidine
PhMe
18
NaIO4
28%
(2 steps)
19
(Ph)3P
CO2Et
CN
PhMe
44%
20
Fe
AcOH, 90 °C
21
t-Bu
TEA
DCM
22
B(OH)2
Pd(OAc)2
EtOH
NH2
NH
Boc
23
TFA
DCM
24

FIG. 4

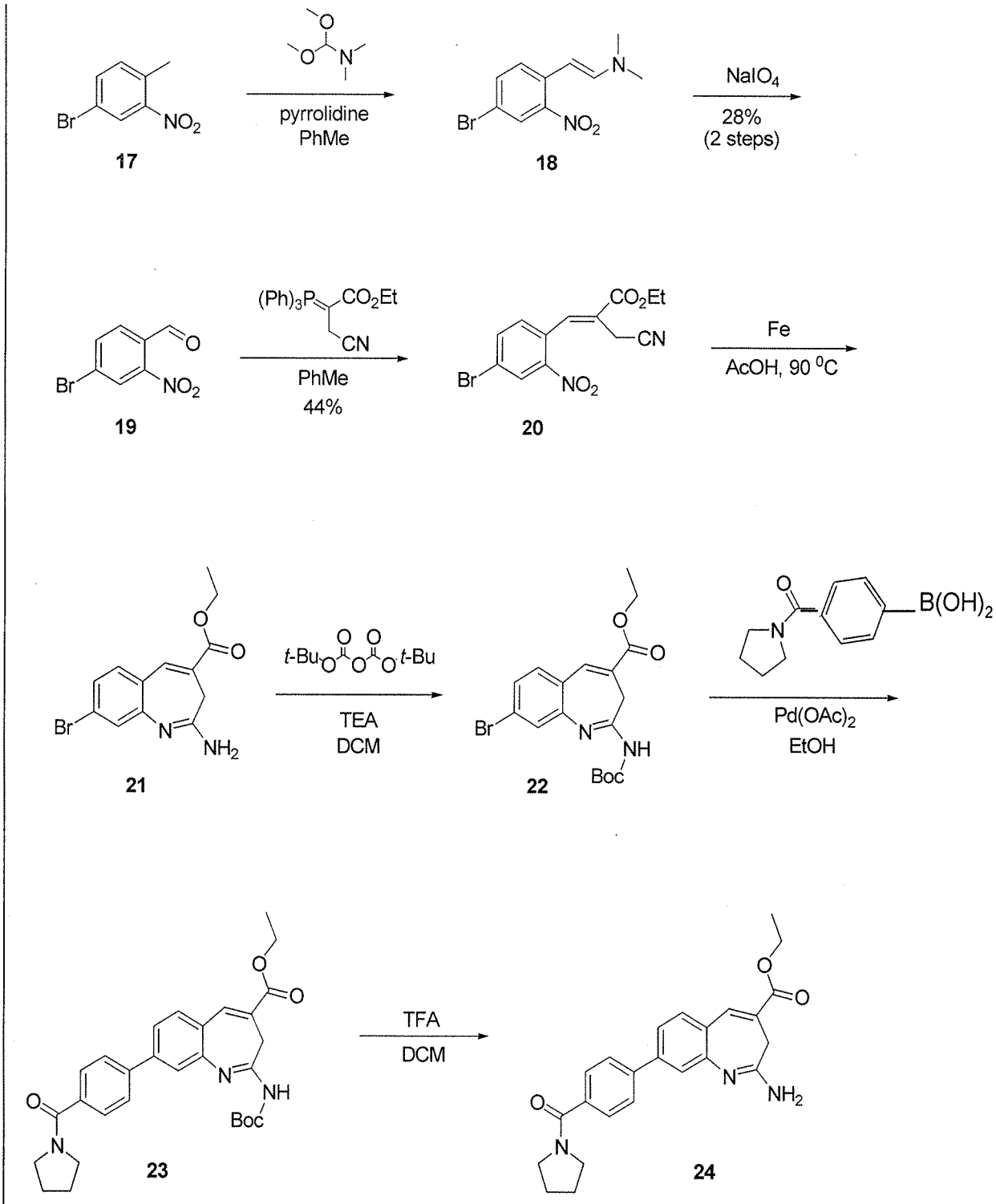

Br
NO2
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pyrrolidine
PhMe
18
NaIO4
28%
(2 steps)
(Ph)3P
CO2Et
CN
19
PhMe
44%
20
Fe
AcOH, 90 0C
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t-Bu
t-Bu
TEA
DCM
22
B(OH)2
Pd(OAc)2
EtOH
NH
Boc
23
TFA
DCM
24
NH2

FIG. 4