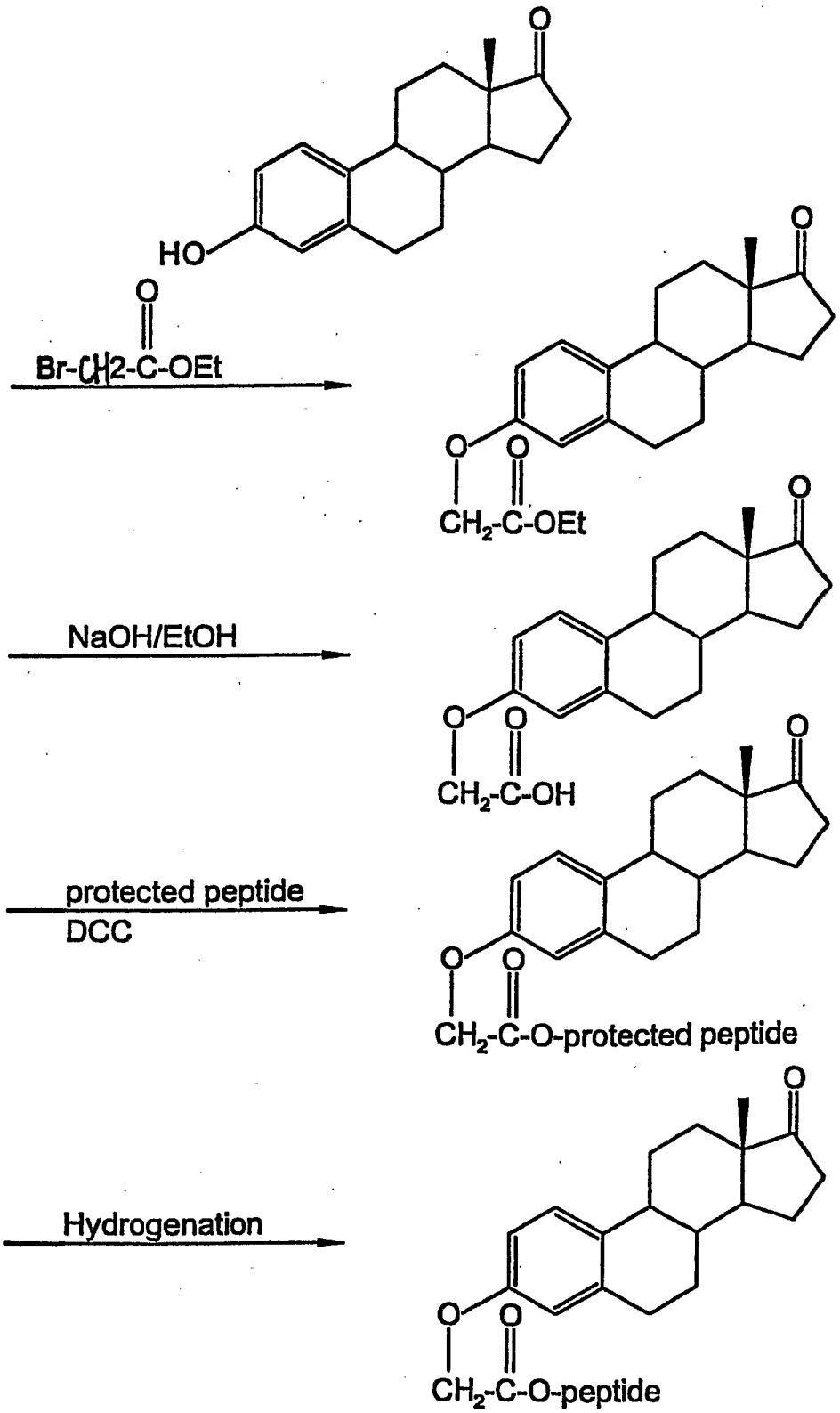

HO
Br-CH2-C-OEt
CH2-C-OEt
NaOH/EtOH
CH2-C-OH
protected peptide
DCC
CH2-C-O-protected peptide
Hydrogenation
CH2-C-O-peptide

FIG. 1

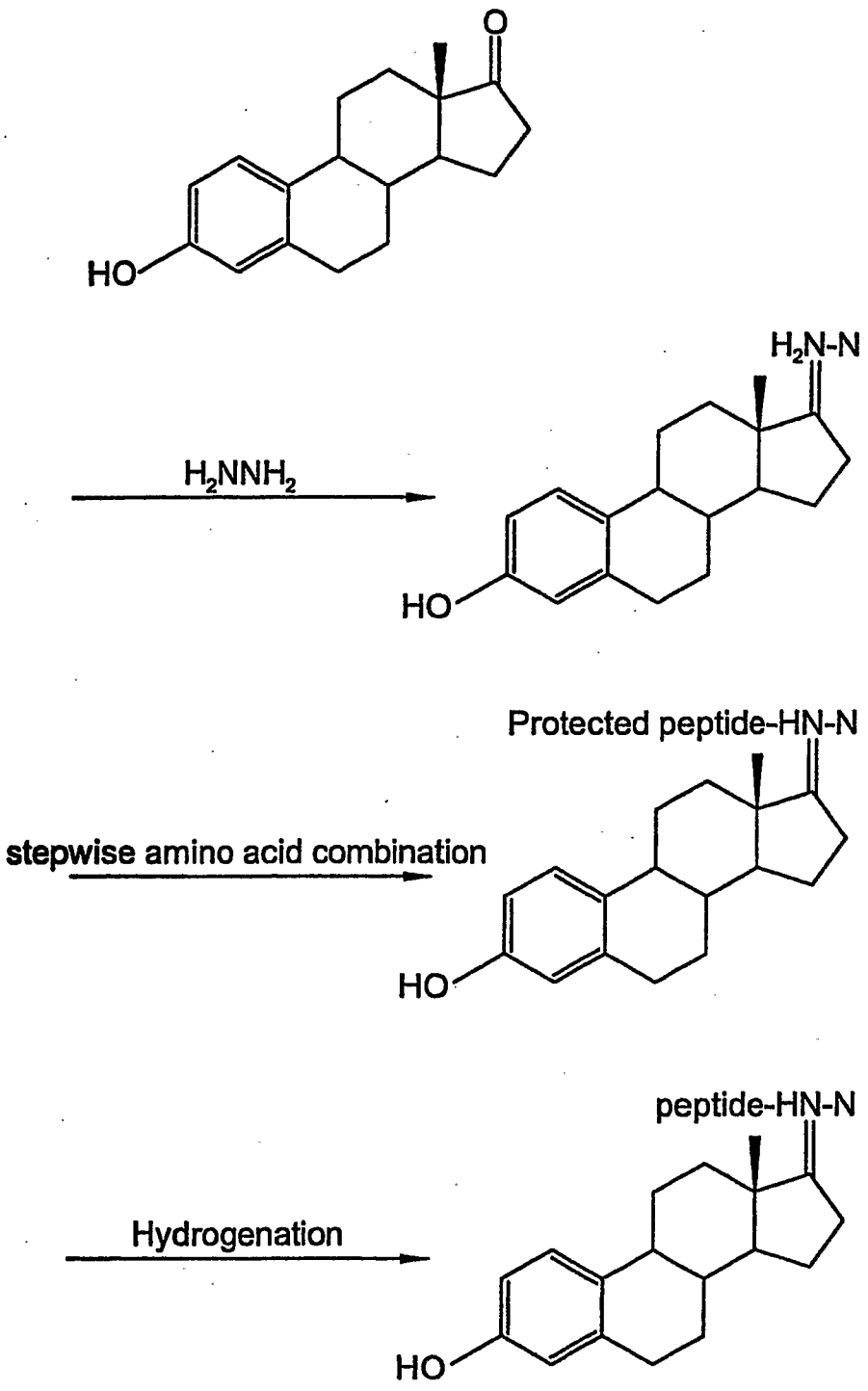

O
HO
H_2N-N
H_2NNH_2
HO
Protected peptide-HN-N
stepwise amino acid combination
HO
peptide-HN-N
Hydrogenation
HO

FIG. 2

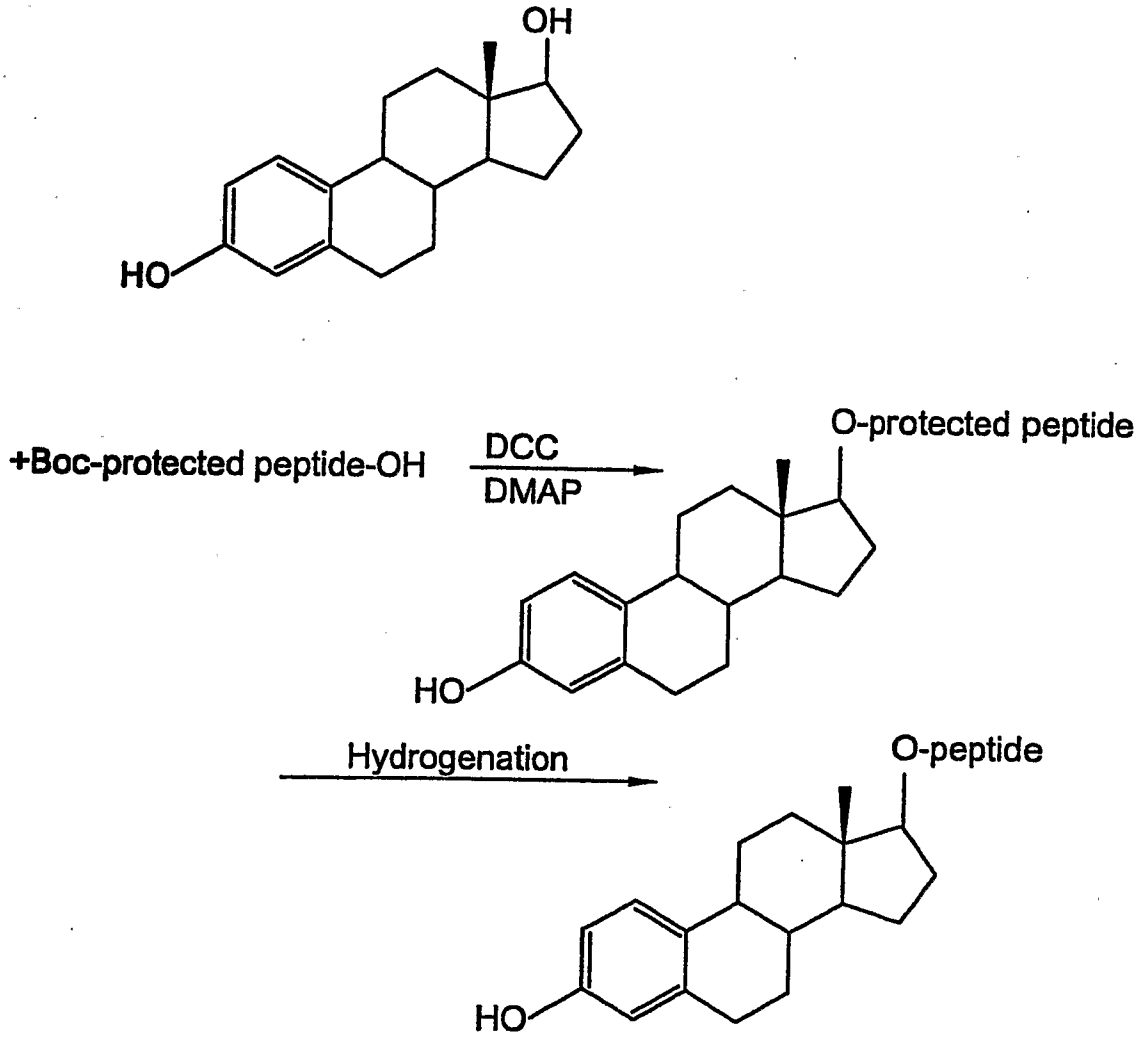

OH
HO
+Boc-protected peptide-OH
DCC
DMAP
O-protected peptide
HO
Hydrogenation
O-peptide
HO

FIG. 3

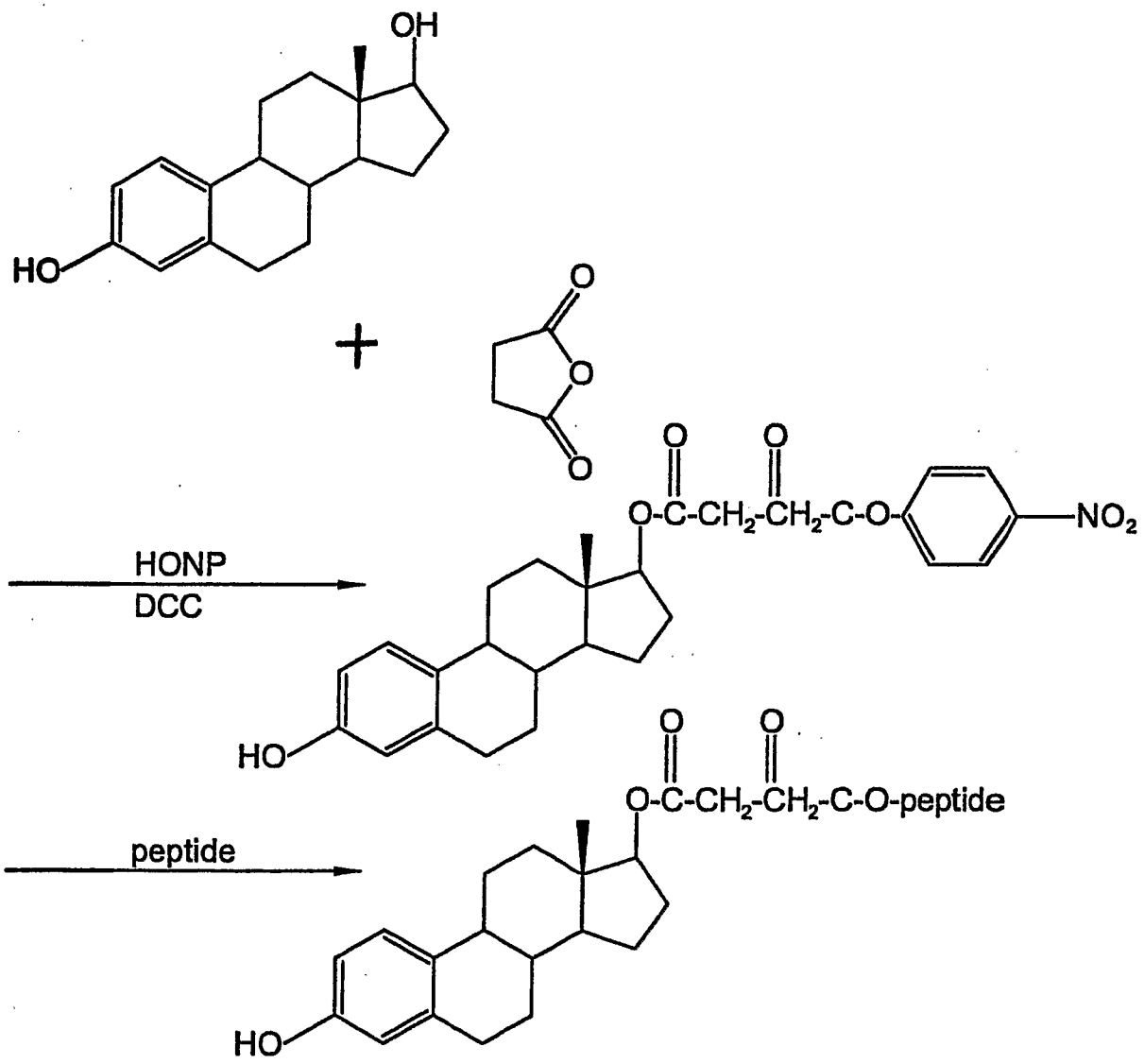

OH
HO
O
O
O
O
O
O-C-CH2-CH2-C-O-
NO2
HONP
DCC
HO
O
O
O-C-CH2-CH2-C-O-peptide
peptide
HO

FIG. 4

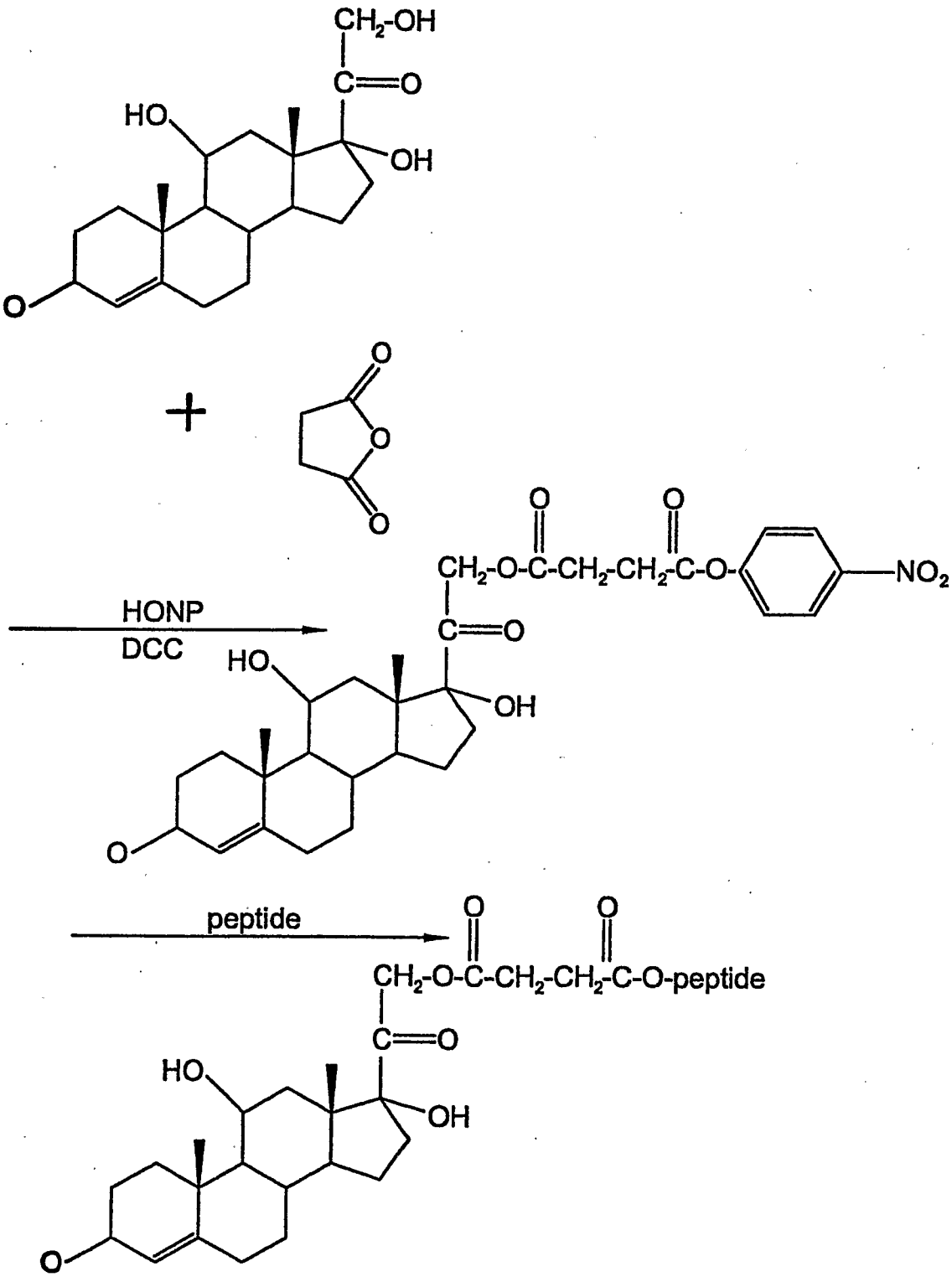

CH2-OH
C=O
HO
OH
O
O
O
O
HONP
DCC
CH2-O-C-CH2-CH2-C-O-
NO2
peptide
CH2-O-C-CH2-CH2-C-O-peptide

FIG. 5