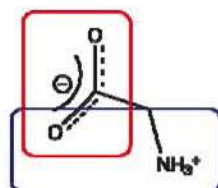


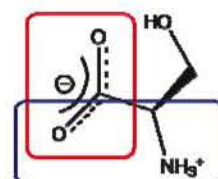
Glycine

pKa values for Glycine:
primary amine pKa = 9.7
carboxylic acid pKa = 2.3



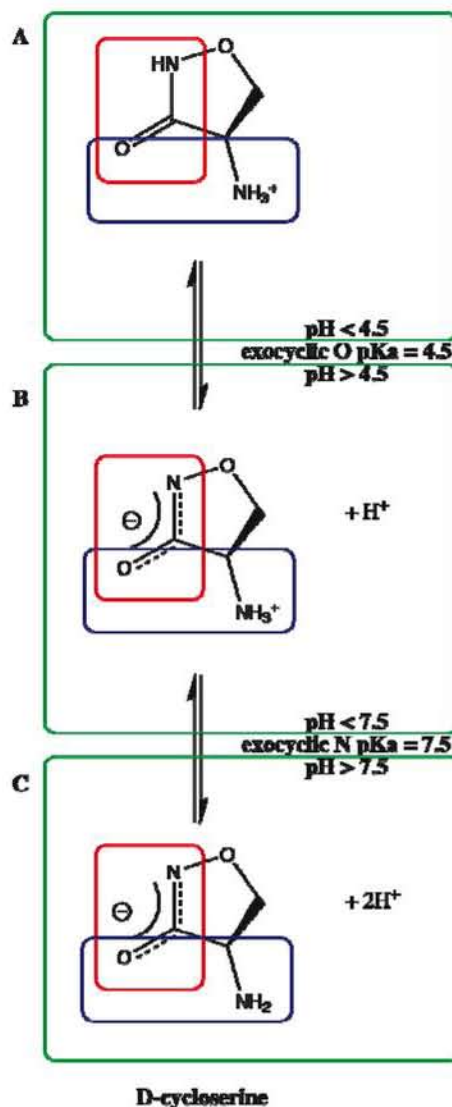
D-serine

pKa value for D-Serine:
primary amine pKa = 9.1
carboxylic acid pKa = 2.2



D-cycloserine

pKa value for DCS:
exocyclic N pKa = 7.5
exocyclic O pKa = 4.5



Supplemental Figure 1. The protonation states of the two NR1 agonists glycine (Gly) and D-cycloserine (DCS). A, Representation of DCS protonation state at pH < 4.5. B, Representation of the DCS protonation state at pH range > 4.5 and pH < 7.5. This is also the pH range used for in vitro testing and in silico simulations. C, Representation of the protonation state of DCS at pH > 7.5. pKa values obtained from McBain et al., 1989 and Furukawa et al., 2003.