



# ORGOREVIEW

## Question Vault

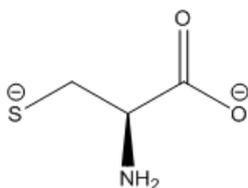
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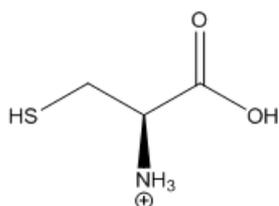


Six different protonation states of the amino acid cysteine are shown below. The pKa of the carboxylic acid group is 1.7. The pKa of the thiol is 8.3. The pKa of the protonated amine is 10.8. Select the structure that best represents the predominate state of cysteine in blood, pH = 7.4.

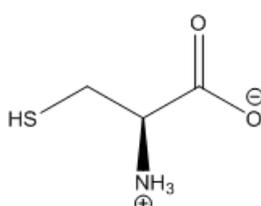
(A)



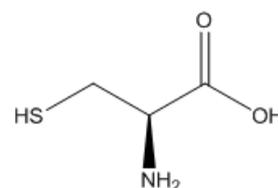
(B)



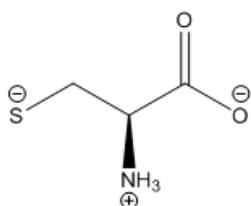
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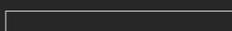
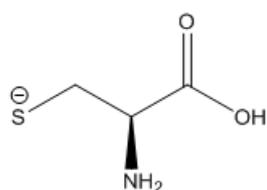
(D)



(E)



(F)



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