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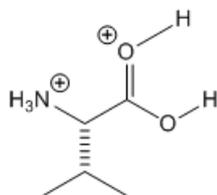
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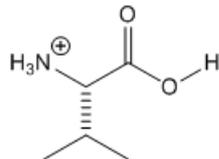
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Five different protonation states of the amino acid valine are shown below. Use these structures to answer the question. The pK_a of the NH_4^+ group is 9.7. The pK_a of the CO_2H group is 2.3. Which structure represents the predominate form of valine dissolved in a buffered solution of $pH = 2$?

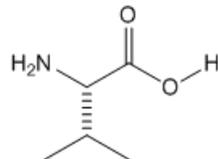
(A)



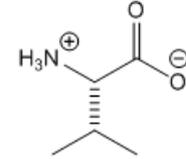
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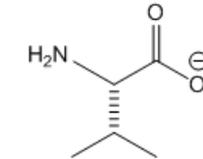
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