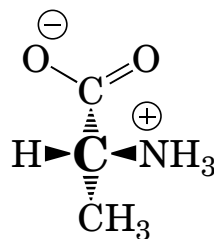
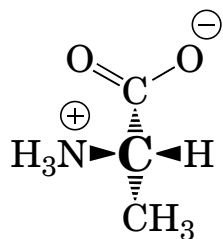
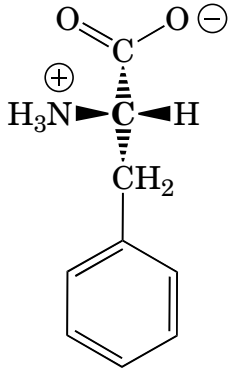
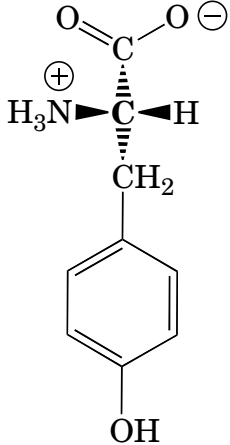
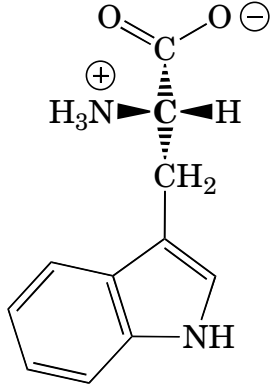
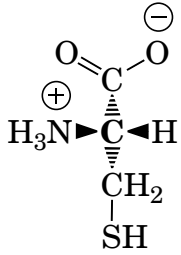


The Amino Acids



Structure	Name of the amino acid	Three Letter Code	One Letter Code	Properties of the side chain
$ \begin{array}{c} \text{O} \\ \parallel \\ \text{O}=\text{C}-\text{O}^{\ominus} \\ \\ \text{H}_3\text{N}^{\oplus} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{CH}_3 \end{array} $				
$ \begin{array}{c} \text{O} \\ \parallel \\ \text{O}=\text{C}-\text{O}^{\ominus} \\ \\ \text{H}_3\text{N}^{\oplus} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{CH}_3\text{CH} \\ \\ \text{CH}_3 \end{array} $				
$ \begin{array}{c} \text{O} \\ \parallel \\ \text{O}=\text{C}-\text{O}^{\ominus} \\ \\ \text{H}_3\text{N}^{\oplus} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{CH}_2 \\ \\ \text{H}_3\text{C}-\text{CH}-\text{CH}_3 \end{array} $				
$ \begin{array}{c} \text{O} \\ \parallel \\ \text{O}=\text{C}-\text{O}^{\ominus} \\ \\ \text{H}_3\text{N}^{\oplus} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{H}_3\text{C}-\text{C} \blacktriangleleft \text{H} \\ \\ \text{H}_3\text{C}-\text{CH}_2 \end{array} $				
$ \begin{array}{c} \text{O} \\ \parallel \\ \text{O}=\text{C}-\text{O}^{\ominus} \\ \\ \text{H}_3\text{N}^{\oplus} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{CH}_2 \\ \\ \text{S}-\text{CH}_2 \\ \\ \text{CH}_3 \end{array} $				

Structure	Name of the amino acid	Three Letter Code	One Letter Code	Properties of the side chain
				
				
				
Structure	Name of the amino acid	Three Letter Code	One Letter Code	Properties of the side chain
				

Structure	Name of the amino acid	Three Letter Code	One Letter Code	Properties of the side chain
$ \begin{array}{c} \ominus \\ \text{O}=\text{C}-\text{O} \\ \oplus \\ \text{H}_3\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{CH}_2 \\ \\ \text{OH} \end{array} $				
$ \begin{array}{c} \ominus \\ \text{O}=\text{C}-\text{O} \\ \oplus \\ \text{H}_3\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{H}_3\text{C} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{OH} \end{array} $				
$ \begin{array}{c} \ominus \\ \text{O}=\text{C}-\text{O} \\ \oplus \\ \text{H}_3\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{CH}_2 \\ \\ \text{O}=\text{C}-\text{NH}_2 \end{array} $				
$ \begin{array}{c} \ominus \\ \text{O}=\text{C}-\text{O} \\ \oplus \\ \text{H}_3\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{O} \quad \text{CH}_2 \\ \quad \\ \text{H}_2\text{N}-\text{C}-\text{CH}_2 \end{array} $				

Structure	Name of the amino acid	Three Letter Code	One Letter Code	Properties of the side chain
$ \begin{array}{c} \ominus \\ \text{O}=\text{C}-\text{O} \\ \oplus \\ \text{H}_3\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{CH}_2 \\ \\ \text{O}=\text{C}-\text{O} \ominus \end{array} $				
$ \begin{array}{c} \ominus \\ \text{O}=\text{C}-\text{O} \\ \oplus \\ \text{H}_3\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \\ \text{O} \quad \text{CH}_2 \\ \quad \\ \ominus \text{O}-\text{C}-\text{CH}_2 \end{array} $				

Structure	Name of the amino acid	Three Letter Code	One Letter Code	Properties of the side chain
$ \begin{array}{c} \text{O} \\ \parallel \\ \text{C} - \text{O}^- \\ \oplus \\ \text{H}_3\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \vdots \\ \text{CH}_2 \\ \\ \text{H}_2\text{C} - \text{CH}_2 \\ \\ \text{H}_2\text{C} - \text{NH}_3^+ \end{array} $				
$ \begin{array}{c} \text{O} \\ \parallel \\ \text{C} - \text{O}^- \\ \oplus \\ \text{H}_3\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \vdots \\ \text{CH}_2 \\ \\ \text{H}_2\text{C} - \text{CH}_2 \\ \\ \text{HN} - \text{C} - \text{NH}_2 \\ \parallel \\ \oplus \text{NH}_2 \end{array} $				
$ \begin{array}{c} \text{O} \\ \parallel \\ \text{C} - \text{O}^- \\ \oplus \\ \text{H}_3\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \vdots \\ \text{CH}_2 \\ \\ \text{HN} \\ \diagup \quad \diagdown \\ \text{N} \quad \text{N} \end{array} $				

Structure	Name of the amino acid	Three Letter Code	One Letter Code	Properties of the side chain
$ \begin{array}{c} \text{O} \\ \parallel \\ \text{C} - \text{O}^- \\ \oplus \\ \text{H}_2\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \quad \vdots \\ \text{H}_2\text{C} - \text{CH}_2 \end{array} $				
$ \begin{array}{c} \text{O} \\ \parallel \\ \text{C} - \text{O}^- \\ \oplus \\ \text{H}_3\text{N} \blacktriangleright \text{C} \blacktriangleleft \text{H} \\ \vdots \\ \text{H} \end{array} $				