

Les vingt acides aminés

Alanine (Ala) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_3 \end{array}$	Sérine (Ser) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2\text{OH} \end{array}$	Acide aspartique (Asp) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{COOH} \end{array}$	Glycine (Gly) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{H} \end{array}$
Valine (Val)* $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH} \\ / \quad \backslash \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$	Thréonine (Thr)* $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{CH}_3 \end{array}$	Acide glutamique (Glu) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{COOH} \end{array}$	Leucine (Leu)* $\begin{array}{c} \text{CH}_3-\text{CH}-\text{CH}_2-\text{CH}-\text{COOH} \\ \qquad \qquad \\ \text{CH}_3 \qquad \qquad \text{NH}_2 \end{array}$
Cystéine (Cys) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{SH} \end{array}$	Lysine (Lys)* $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{NH}_2 \end{array}$	Histidine (His) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{C}-\text{NH} \\ \quad \backslash \\ \text{HC}-\text{N} \quad \text{CH} \end{array}$	Isoleucine (Ile)* $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{H}-\text{C}-\text{CH}_3 \\ \\ \text{CH}_2 \\ \\ \text{CH}_3 \end{array}$
Tyrosine (Tyr) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{C}_6\text{H}_4 \\ \\ \text{OH} \end{array}$	Méthionine (Met)* $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{S} \\ \\ \text{CH}_3 \end{array}$	Asparagine (Asp) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{O}=\text{C}-\text{NH}_2 \end{array}$	Proline (Pro) $\begin{array}{c} \text{COOH} \\ \\ \text{CH} \\ / \quad \backslash \\ \text{H}_2\text{C} \quad \text{NH} \\ \quad \quad \\ \text{H}_2\text{C}-\text{CH}_2 \end{array}$
Tryptophane (Trp)* $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{C}=\text{CH} \\ \quad \backslash \\ \text{NH} \quad \text{C}_6\text{H}_4 \end{array}$	Phénylalanine (Phe)* $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{C}_6\text{H}_5 \end{array}$	Arginine (Arg) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{NH} \\ \\ \text{C}=\text{NH} \\ \\ \text{NH}_2 \end{array}$	Glutamine (Gln) $\begin{array}{c} \text{H}_2\text{N}-\text{CH}-\text{COOH} \\ \\ \text{CH}_2 \\ \\ \text{CH}_2 \\ \\ \text{O}=\text{C}-\text{NH}_2 \end{array}$

* AA : acide aminé essentiel