

Amino Acid Side Chain Chart®

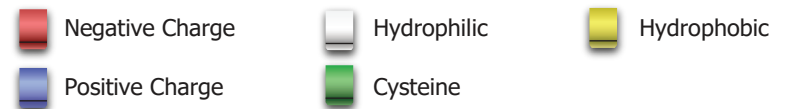
Name	Amino Acid	Side Chain	Name	Amino Acid	Side Chain	Name	Amino Acid	Side Chain	Name	Amino Acid	Side Chain
Alanine	<chem>CC(N)C(=O)O</chem>		Glutamine	<chem>CCC(N)C(=O)O</chem>		Leucine	<chem>CC(C)C(N)C(=O)O</chem>		Serine	<chem>CC(O)C(N)C(=O)O</chem>	
Ala			Gln			Leu			Ser		
A			Q			L			S		
Arginine	<chem>CCCNC(N)=N</chem>		Glutamic Acid	<chem>CCC(=O)C(N)C(=O)O</chem>		Lysine	<chem>CCCC[NH3+]C(N)C(=O)O</chem>		Threonine	<chem>CC(O)C(C)C(N)C(=O)O</chem>	
Arg			Glu			Lys			Thr		
R			E			K			T		
Asparagine	<chem>CC(N)C(=O)N</chem>		Glycine	<chem>CC(N)C(=O)O</chem>		Methionine	<chem>CCSCC(N)C(=O)O</chem>		Tryptophan	<chem>CC1=CC=CC=C1N</chem>	
Asn			Gly			Met			Trp		
N			G			M			W		
Aspartic Acid	<chem>CC(=O)C(N)C(=O)O</chem>		Histidine	<chem>CC1=CN=CN=C1</chem>		Phenylalanine	<chem>CC1=CC=CC=C1</chem>		Tyrosine	<chem>CC1=CC=C(O)C=C1</chem>	
Asp			His			Phe			Tyr		
D			H			F			Y		
Cysteine	<chem>SCC(N)C(=O)O</chem>		Isoleucine	<chem>CC(C)C(C)C(N)C(=O)O</chem>		Proline	<chem>C1CCNC1</chem>		Valine	<chem>CC(C)C(N)C(=O)O</chem>	
Cys			Ile			Pro			Val		
C			I			P			V		

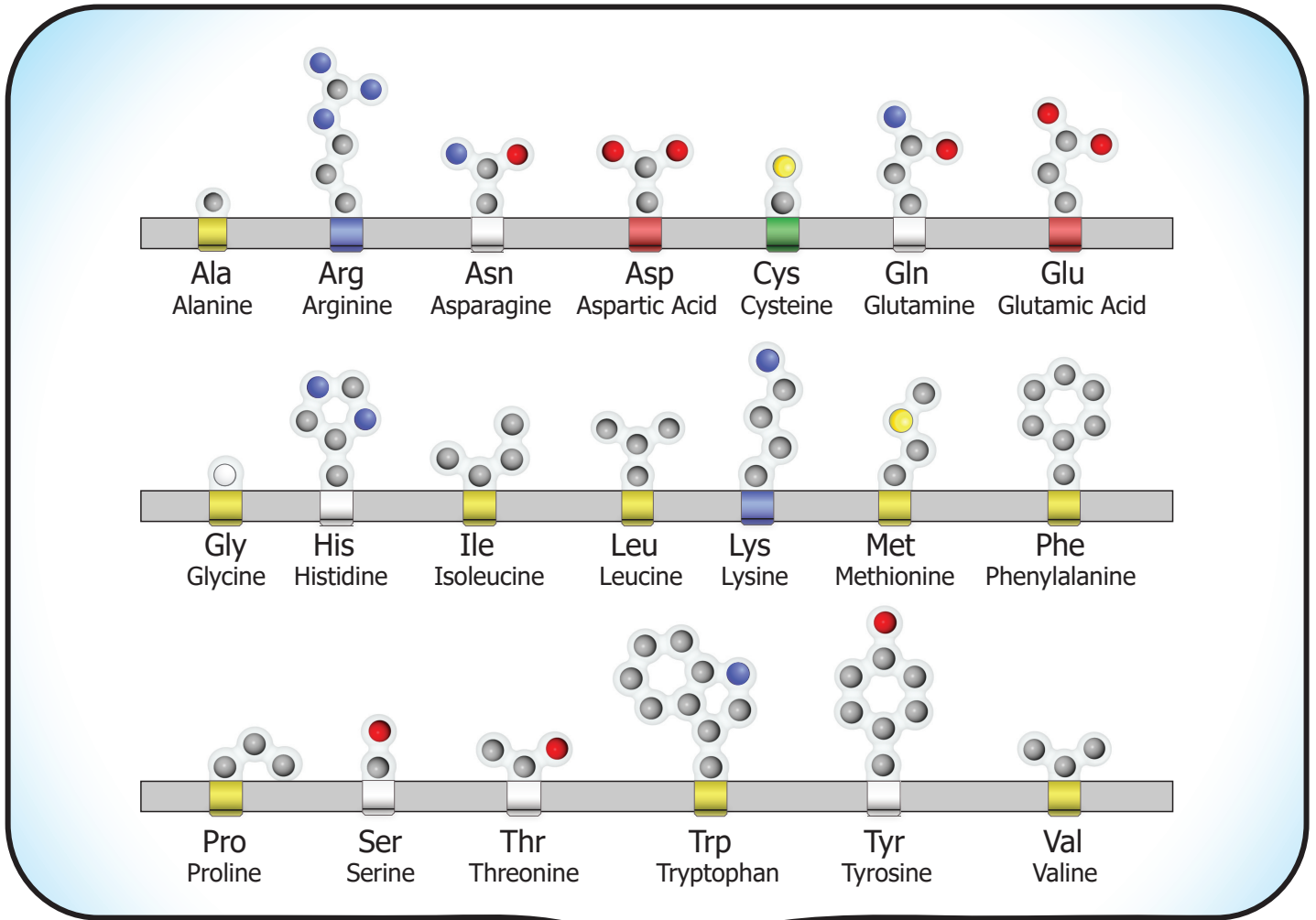
Atom Color Key



Amino Acid Property Key

Amino acid clip color and name color indicate property





20 Different Side Chains
Attach Here

Amino
Group



Alpha Carbon

Carboxylic
Acid Group

