Dipeptides, Tripeptides & Polypeptides (Level 3) exam tips

• Glycine and alanine can combine together with the elimination of a molecule of water to produce a dipeptide *– as shown below*



**same as**

• Look carefully, you’ll notice that glycine and alanine can also combine to form a different dipeptide because the amino acids can join together and form an amide bond if the H is removed from the glycine and OH from the alanine to from a different dipeptide and a water molecule.

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| this dipeptide is exactly as the same as the one above, it’s just drawn back to front. |  |

• If three amino acids are joined together *eg three molecules of glycine* a tripeptide is formed.



• If lots of amino acids are joined together (as in a protein chain), a polypeptide is formed.

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