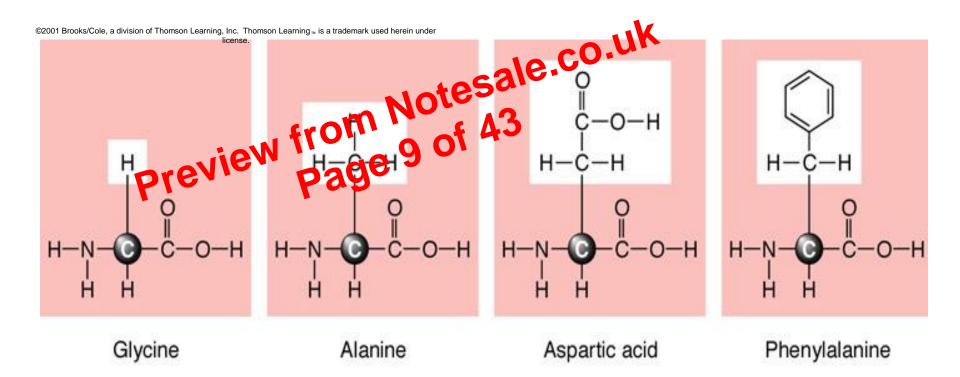
- Because proteins are complex molecules, the body takes projet to break them down. As a result, they green much slower and longer-lasting source of energy than carbohydrates.
- If the body is getting enough calories, it does not use protein for energy. If more protein is consumed than is needed, the body breaks the protein down and stores its components as fat.

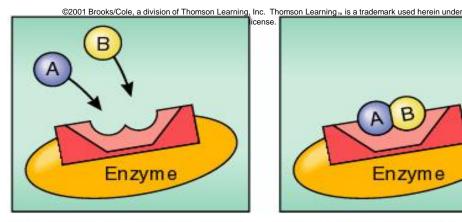


Protein Structure Primary Structure • sequence of amino acids

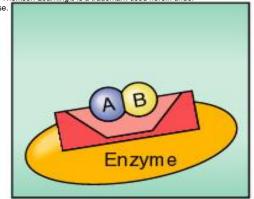
- Secondary Structure
 - helical coil

Protein Functions

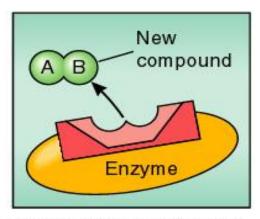
- Catalysts on Notes 43
 Mendovane transporters
 Cell receptors



Two separate compounds, A and B, are attracted to the enzyme's active site, making a reaction likely.



The enzyme forms a complex with A and B.



The enzyme is unchanged. but A and B have formed a new compound, AB.

- Protein Quality

 Vegetariam Biets

 Protein Protein problem?
 - Plant proteins are "Incomplete proteins"
 - Complementary Proteins
 - Example: Mexican Food
 - Tortilla: low lysine, hi methionine
 - Beans: low in methionine, hi lysine

Peanut butter (legume) sandwich (wheat)



Protein Deficiency Marasmusotesale.co.uk Marasmusotesale.co.uk Bothviroteingend Calories low

- - inadequate food intake
- Symptoms
 - wasting of lean and fat tissue
 - weak, anemic, low metabolism
 - death due to secondary infections

