

Important energy storage form of the body

It turns out that fat is a much more efficient way to store energy. Fat has about 9 calories per gram, and protein and carbohydrate have just 4. In living tissue, this difference is even greater. Fat stored in tissue contains very little water. In ...

Our daily food choices resupply the potential energy, or fuel, that the body requires to continue to function normally. This energy takes three forms: carbohydrate, fat, and protein. (See table 2.1, Estimated Energy Stores in ...

Humans obtain energy from three classes of fuel molecules: carbohydrates, lipids, and proteins. The potential chemical energy of these molecules is transformed into other forms, such as ...

Study with Quizlet and memorize flashcards containing terms like A _____ is a type of lipid that contains a glycerol backbone, two fatty acids, and a phosphorus group, What are the major functions of fatty acids and triglycerides in the ...

In the body, fat functions as an important depot for energy storage, offers insulation and protection, and plays important roles in regulating and signaling. Large amounts of dietary fat ...

The two principal storage forms of energy within cells, polysaccharides and lipids, can also be broken down to produce ATP. Polysaccharides are broken down into free sugars, which are then metabolized as discussed in the previous section.

In the body, fat functions as an important depot for energy storage offers insulation and protection and plays important roles in regulating and signaling. Large amounts of dietary fat are not required to meet these functions because ...

The body cannot convert fat into glucose to a significant degree. Thus, without glucose, the body is forced to break down its protein tissues to make glucose for energy, which can lead to ...

The energy from these carbon bonds is carried to another area of the mitochondria, making the cellular energy available in a form cells can use. Figure 4.10 Cellular Respiration. Cellular ...

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