

glucokinase its regulation and pdf

Glucokinase (EC 2.7.1.2) is an enzyme that facilitates phosphorylation of glucose to glucose-6-phosphate. Glucokinase occurs in cells in the liver and pancreas of humans and most other vertebrates. In each of these organs it plays an important role in the regulation of carbohydrate metabolism by acting as a glucose sensor, triggering shifts in metabolism or cell function in response to rising or ...

Glucokinase - Wikipedia

A hexokinase is an enzyme that phosphorylates hexoses (six-carbon sugars), forming hexose phosphate. In most organisms, glucose is the most important substrate of hexokinases, and glucose-6-phosphate is the most important product. Hexokinase possesses the ability to transfer an inorganic phosphate group from ATP to a substrate. Hexokinases should not be confused with glucokinase, which is a ...

Hexokinase - Wikipedia

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Die Glykolyse (altgriechisch γλυκός, glykys 'süß' und λύσις, lysis 'Auflösung') ist bei Lebewesen der schrittweise Abbau von Monosacchariden (Einfachzuckern) wie der D-Glucose (Traubenzucker), von der sich auch die Bezeichnung Glykolyse ableitet. Sie ist der zentrale Prozess beim Abbau aller Kohlenhydrate in allen Eukaryoten, dazu gehören Tiere, Pflanzen und Pilze.

Glykolyse - Wikipedia

where E_{in} is the calorie of total absorbed energy, E_s is the calorie of stored energy, and E_c is the calorie of consumed energy.. Fats, carbohydrates, and proteins are called energy substances. Proteins serve as carbon and nitrogen sources. Because energy metabolism is essentially a moderate burning process in which

CO₂ is generated via decarboxylation under constant temperature and ...

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