

Answers Pogil Activity: Glycolysis and the Krebs Cycle

1. Refer to Model 1.
 - a. What molecule from food is the primary reactant for glycolysis?
 - i. Glucose
 - b. How many carbon atoms are in that reactant molecule?
 - i. Six carbon atoms
2. The carbon atoms from glucose end up in pyruvate molecules as a product of glycolysis.
 - a. How many carbon atoms are in a pyruvate molecule?
 - i. Three carbon atoms
 - b. How many pyruvate molecules are made from each glucose molecule?
 - i. Two pyruvate molecules are made from each glucose molecule.
3. Does the process of glycolysis require an input of energy? Provide specific evidence from Model 1 to support your answer.
 - a. Glycolysis needs two ATP molecules to convert glucose.
4. Refer to Model 1. Propose an explanation for why the author of this activity put PGAL at the highest point in the Model 1 diagram.

The PGAL molecule has a higher potential energy than the glucose molecule. The energy from the ATP energy converting into ADP increase the potential
5. Does pyruvate have more or less potential energy than glucose? Provide specific evidence from Model 1 to support your answer.
 - a. Pyruvate has less potential energy than glucose, in the model we see an arrow that indicates the amount of potential energy in the step of the process. In the model, pyruvate is indicated to have a lower potential energy level.
6. What is the net production of ATP by glycolysis?
 - a. The net gain of ATP in glycolysis is two.
7. What molecule acts as an electron acceptor in glycolysis?
 - a. NADH

Pogil Glycolysis And The Krebs Cycle Answers

Jimmy Graves



Pogil Glycolysis And The Krebs Cycle Answers:

Glycolysis 247 Success Secrets - 247 Most Asked Questions on Glycolysis - What You Need to Know Jimmy Graves, 2014-10-15 Feel The Power Of Glycolysis There has never been a Glycolysis Guide like this It contains 247 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Glycolysis A quick look inside of some of the subjects covered Enzymes Biological function Glucose Energy source Fermentation Lactic acid fermentation Pyruvate kinase Deficiency Triosephosphate isomerase Mechanism Carbohydrate metabolism Energy Production Glycogenolysis Function Bioethanol Biofuel gasoline Isotopic labeling Stable isotope labeling Lipolysis Chemiosmosis In mitochondria Glycolysis Citric acid cycle Regulation Microbial metabolism Fermentation Beta cell Control of Insulin Secretion Aldose reductase Function PKM2 Bi functional role within tumors Metabolic Proteins Fatty acid synthesis Fermentation Aerobic respiration Fructolysis Fructolysis and glycolysis are independent pathways PFK2 Regulation Bipedal Respiration Bisphosphoglycerate mutase Function Dehydrogenase Examples List of biology topics Cellular and molecular biology Uridine Uridine in the Glycolysis Pathway Lactate dehydrogenase Reactions Muscle Microbial metabolism Heterotrophic microbial metabolism Muscle mass Types of tissue Cell biologist Other cellular processes Pyruvate kinase Reaction Metabolism Energy from organic compounds Polyethylene terephthalate Partial glycolysis Fructose biphosphate aldolase In gluconeogenesis and glycolysis Citric acid cycle Products Jakub Karol Parnas Achievements and much more

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