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Lecture 8

Gluconeogenesis

Done by:

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metabolism-lecture (8)

- 1. The enzyme that allosterically inhibited by accumulation of its own product is:
- A- Hexokinase.
- B-Glucokinase.
- C-PFK-1.
- D-Pyruvate kinase.
- E-PFK-2.

Answer: A

- 2. During gluconeogenesis, the conersion of giucose 6-P to gucose is catalyzed by glucose-6 phosphatase. Which of the following statement is true about this reaction?
- A) The reaction occurs in mitochondria
- B) Abnormal glycogen accumulation in liveris a result of this enzyme deficiency Conversion of glucose 6-phosphate to glucose releases a molecule of ATP
- D)It is a highly active enzyme in skeletal muscles
- E) It can,t be reversed also by hexokinase and /or glucokinase

Answer:E

glycolysis has,
as the rate limiting enzyme, which is inhibited by_-

Answer: PFK-1, Citra



metabolism-lecture (8)

4. Apatiemt has been exposed to acompound that increases the protons permeability across the inner mitochondrial membrane.

What would be expected to happen?

Select one:

a. Increased oxygen utilization

b.Decreased pyruvate dehydrogenase activity

c. Decreased malate-aspartate shuttle activity

d.Increased ATP levels

e.Increased FO/F1 ATP Ssynthase activity

Answer: A

5. The glycolysis and gluconeogenesis linked by which enzyme?

A. Phosphoglycerate kinase

B. hexokinase

C. pyruvate kinase

D. PFK -2/FBPase-2

Answer D

6. Wrong about pyruvate carboxylase?

A) Its action in inner mitochondrial space



metabolism-lecture (8)

- 7. Enzyme/s is considere d as a positve regulator for both glycolysis/gloconeogensis?)
- A. Phosphoglycerate kinase
- B. hexokinase
- C. pyruvate kinase
- D. PFK -2/FBPase-2

Answer D

8. According to the reactant in gluconeogenesis all are true except?

AJ2 pyruvate

B) 2NAD

C)4ATP

D)4Pi

E)2GTP

Answer: D

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