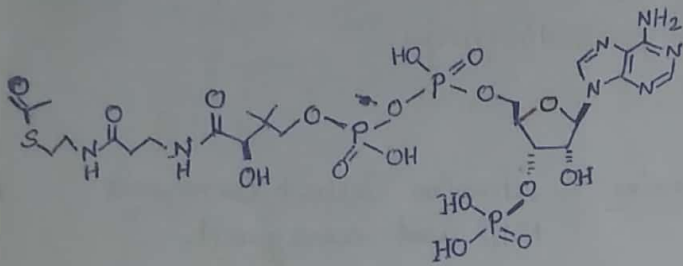
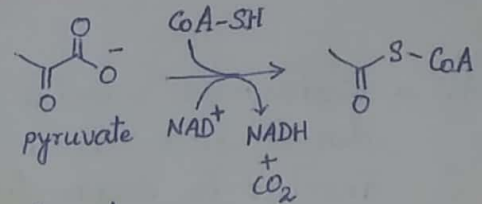
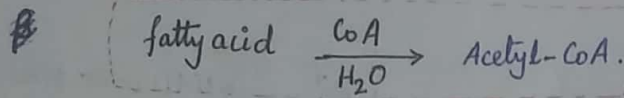


Structure of Acetyl-Co-A



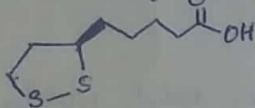
- * participates in biochemical reactions of protein, carbohydrate and lipid metabolism.
- * main function is to deliver the acetyl group to the citric acid cycle (Krebs cycle) to be oxidized for energy production (ATP).



Pyruvate dehydrogenase complex reaction (Intramitochondrial)

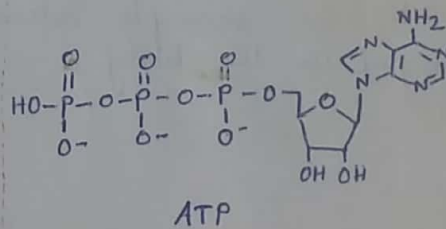
Non-vitamin coenzyme:

(1) Lipoic enzyme acid



- * cofactor in five enzymatic systems
- * two of these are in the citric acid cycle through which many organisms turn nutrients into energy.

(2) ATP in enzyme ATP Synthase in the mitochondria and is involved in cellular respiration.



Examples of cofactors:

Prosthetic group.

- (1) Heme
- (2) Porphyrin