

Regulation of ketogenesis

Regulation of ketogenesis takes place at **four levels**:

1. **Hormone-sensitive lipase** – lipolysis in adipose tissue.
2. **Carnitine acyltransferase I** – entry of fatty acids into mitochondria, where their β -oxidation takes place.
3. **Routing of acetyl-CoA from β -oxidation to ketogenesis and not to the Krebs cycle** .
4. **Mitochondrial HMG-CoA synthase**.

A high level of ketone bodies in the blood signals the presence of a large amount of acetyl-CoA. Its consequence is the inhibition of lipolysis.

Template:Navbox - přeměna látek a energie v buňce