

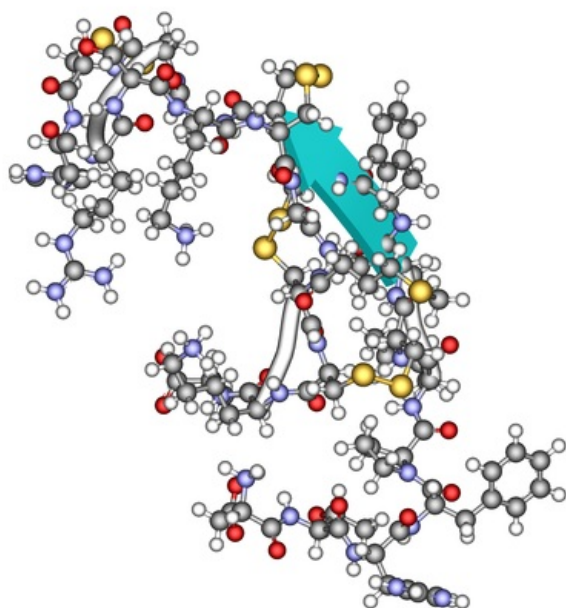
Hepcidin

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Hepcidin

Gland	liver - hepatocyte
Structure	peptide
Target organ / tissue	macrophages, enterocytes
Receptor	ferroportin
Effects	degrades the ferroportin canal - blocks the influx of iron into plasma

Hepcidin is a hormone synthesized in **hepatocytes**. It is a peptide that controls Iron **metabolism in the body**. In the blood is transported to target tissues. In **enterocytes** and **macrophages** it blocks the export of iron from the cells. In other words, **it keeps the iron in the cell**. It was discovered in 2000 in human urine.

Function

Iron is absorbed in the duodenum via enterocytes and is transported to the plasma via **ferroportin**. In the event of hepcidin action **ferroportin is degraded** and thus the export of iron from the cell is blocked.

Disorders

- Hepcidin may be completely absent - juvenile hemochromatosis.
- If there is mutation of hepcidin gene - Hereditary hemochromatosis

Regulation

- It is regulated by iron reservoir
- Hepcidin decreases during anemia.
- Hepcidin synthesis decreases with increased activity of **erythropoiesis**.
- Hepcidin synthesis increases during **inflammations**.

Links

Related Articles

- Liver
- Hemochromatosis
- Laboratory indicators of iron deficiency or excess
- Anemia of chronic diseases

References

- TROJAN, Stanislav – TROJAN, Stanislav. *Lékařská fyziologie*. 4. edition. Praha : Grada, 2003. 772 pp. ISBN 80-247-0512-5.
- ROKYTA, Richard. *Fyziologie a patologická fyziologie : pro klinickou praxi*. 1. edition. 2015. 712 pp. ISBN 978-80-247-4867-2.

Extern links

- <http://www.martinvokurka.cz/zelezo.htm#hepcidin>

