

# Ceruloplasmin

**Ceruloplasmin** is a plasma protein produced in liver, which can reversibly bind 6 atoms of copper in its molecule. Defect of this form of copper transport by ceruloplasmin causes Wilson's disease. Another function of ceruloplasmin is prevention of forming dangerous hydroxyl radicals, in so called Fenton's reaction by catalyzing oxidation of  $\text{Fe}^{2+}$  to  $\text{Fe}^{3+}$ .<sup>[1]</sup> Ceruloplasmin is a significant acute phase reactant. Its blood concentration physiologically rises in pregnancy.



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## Links

### Related articles

- Plasma proteins
- Acute phase reactants
- Wilson's disease

### Reference

1. RACEK, J, et al. *Klinická biochemie*. První vydání. Praha : Galén – Karolinum, 1999. s. 63. ISBN 80-7262-023-1.