

Alkaptonuria is a rare inherited genetic disorder in which the body cannot process the **aminoacids** **phenylalanine** and **tyrosine**, which occur in **protein**. It is caused by a mutation in the HGD gene for the enzyme homogentisate 1,2-dioxygenase (EC 1.13.11.5); if a person inherits abnormal copies from each parent (it is a **recessive** condition), the body accumulates an intermediate substance called **homogentisic acid** in the blood and tissues. Homogentisic acid and its oxidized form alkapton are excreted in the urine, giving it an unusually dark color. The accumulating homogentisic acid causes damage to cartilage (**ochronosis**, leading to osteoarthritis) and heart valves, as well as precipitating as kidney stones and stones in other organs.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=homogentisic_acid

Last update: **2024/06/07 02:59**

