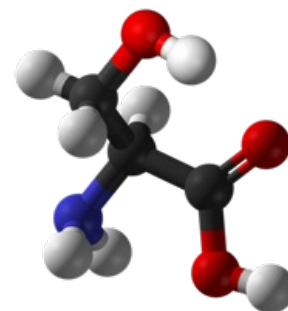


# Serine

Serine is one of the **non-essential amino acids**. Under the term non-essential we understand that the human body is able to create it itself, so there is no need for food intake.

It can be converted to glycine by the enzyme *serine hydroxymethyltransferase*. In the human body, it is synthesized from 3-phosphoglycerate. It is a precursor of the amino acid selenocysteine. Decarboxylation of serine produces ethanolamine, which by triple methylation forms **choline**, a precursor of acetylcholine, which is a very important neuromodulator.



Serine molecule

## Links

### Related Articles

- Amino Acids

### Bibliography

- MATOUŠ, Bohuslav. *Základy lékařské chemie a biochemie*. 2010. edition. Prague : Galén, 2010. 540 pp. ISBN 978-80-7262-702-8.