

[Open Peer Review on Qeios](#)

Serine

National Cancer Institute

Source

National Cancer Institute. *Serine*. NCI Thesaurus. Code C29613.

A non-essential amino acid in humans (synthesized by the body), Serine is present and functionally important in many proteins. With an alcohol group, serine is needed for the metabolism of fats, fatty acids, and cell membranes; muscle growth; and a healthy immune system. It also plays a major role in pyrimidine, purine, creatine, and porphyrin biosynthetic pathways. Serine is also found at the active site of the serine protease enzyme class that includes trypsin and chymotrypsin. (NCI04)