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# DL-Selenomethionine

National Cancer Institute

## Source

National Cancer Institute. *DL-Selenomethionine*. NCI Thesaurus. Code C826.

A selenium (Se) analogue of methionine in which sulfur is replaced with the trace element selenium. Selenomethionine (SeMet) can incorporate into proteins in place of methionine with no effects on protein structure and function, providing a mechanism for reversible Se storage in organs and tissues. Free selenium is incorporated into selenocysteine, an amino acid found in more than thirty selenoproteins including the glutathione peroxidases (GPx) enzymes, thioredoxin reductase (TR) and the iodothyronine deiodinase enzymes.