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Fluvastatin

National Cancer Institute

Source

National Cancer Institute. *Fluvastatin*. NCI Thesaurus. Code C61768.

A synthetic lipid-lowering agent with antilipidemic and potential antineoplastic properties. Fluvastatin competitively inhibits hepatic 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) reductase, which catalyzes the conversion of HMG-CoA to mevalonate, a key step in cholesterol synthesis. This agent lowers plasma cholesterol and lipoprotein levels, and modulates immune responses through the suppression of MHC II (major histocompatibility complex II) on interferon gamma-stimulated antigen-presenting cells such as human vascular endothelial cells. Due to its anti-inflammatory effects mediated by alterations of lipid metabolism, fluvastatin may possess chemopreventive and therapeutic antineoplastic properties.