

[Open Peer Review on Qeios](#)

Mycophenolic Acid

National Cancer Institute

Source

National Cancer Institute. *Mycophenolic Acid*. NCI Thesaurus. Code C673.

An antineoplastic antibiotic derived from various *Penicillium* fungal species. Mycophenolic acid is an active metabolite of the prodrug mycophenolate mofetil. Mycophenolic acid inhibits inosine monophosphate dehydrogenase (IMPDH), preventing the formation of guanosine monophosphate and synthesis of lymphocyte DNA that results in inhibition of lymphocyte proliferation, antibody production, cellular adhesion, and migration of T and B lymphocytes. Mycophenolic acid also has antibacterial, antifungal, and antiviral activities. (NCI04)