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# Sulfonamide Anti-Infective Agent

National Cancer Institute

## Source

National Cancer Institute. *Sulfonamide Anti-Infective Agent*. NCI Thesaurus. Code C29739.

A class of natural or synthetic sulfanilamide derivatives with antibacterial activity. Sulfonamides are structural analogs of para-aminobenzoic acid (essential for microbial folate synthesis). Sulfonamides inhibit bacterial metabolism by competing with PABA for dihydropteroate synthase, thereby resulting in disruption of folic acid metabolism and ultimately DNA synthesis.