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Sulfisoxazole Acetyl

National Cancer Institute

Source

National Cancer Institute. <u>Sulfisoxazole Acetyl</u>. NCI Thesaurus. Code C47741.

An ester of sulfisoxazole, a broad-spectrum sulfanilamide and a synthetic analog of paraaminobenzoic acid (PABA) with antibacterial property. Sulfisoxazole acetyl competes with PABA for the bacterial enzyme dihydropteroate synthase, thereby preventing the incorporation of PABA into dihydrofolic acid, the immediate precursor of folic acid. This leads to an inhibition of bacterial folic acid synthesis and de novo synthesis of purines and pyrimidines, ultimately resulting in cell growth arrest and cell death.

Qeios ID: T1MA6D · https://doi.org/10.32388/T1MA6D