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# Tiazofurin

National Cancer Institute

## Source

National Cancer Institute. *Tiazofurin*. NCI Thesaurus. Code C1254.

A synthetic nucleoside analogue with antineoplastic activity. Tiazofurin (TR) is anabolized intracellularly to an analogue of NAD, tiazole-4-carboxamide adenine dinucleotide (TAD), a potent inhibitor of IMP dehydrogenase (IMPDH); IMPDH is the rate-limiting enzyme for de novo purine synthesis. Inhibition of IMPDH results in reduced levels of guanylates, resulting in the inhibition tumor cell growth in vitro and in vivo. (NCI04)