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## Topoisomerase-II Inhibitor Racemic XK469

National Cancer Institute

## Source

National Cancer Institute. <u>Topoisomerase-II Inhibitor Racemic XK469</u>. NCI Thesaurus. Code C2825.

The racemic form of a synthetic quinoxaline phenoxypropionic acid derivative with antineoplastic properties. XK469R selectively inhibits topoisomerase II by stabilizing the enzyme-DNA intermediates in which topoisomerase subunits are covalently linked to DNA through 5-phosphotyrosyl linkages, thereby interfering with DNA repair and replication, RNA and protein synthesis. This agent possesses unusual solid tumor selectivity and activity against multidrug-resistant cancer cells. XK469R is more water soluble and active than the pure isomers, R(+)XK469 and S(-)XK469. (NCI05)

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