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Quarfloxin

National Cancer Institute

Source

National Cancer Institute. *Quarfloxin*. NCI Thesaurus. Code C71726.

A fluoroquinolone derivative with antineoplastic activity. Quarfloxin disrupts the interaction between the nucleolin protein and a G-quadruplex DNA structure in the ribosomal DNA (rDNA) template, a critical interaction for rRNA biogenesis that is overexpressed in cancer cells; disruption of this G-quadruplex DNA:protein interaction in aberrant rRNA biogenesis may result in the inhibition of ribosome synthesis and tumor cell apoptosis.