

Open Peer Review on Qeios

Aerosolized Liposomal Rubitecan

National Cancer Institute

Source

National Cancer Institute. <u>Aerosolized Liposomal Rubitecan</u>. NCI Thesaurus. Code C61071.

An aerosolized liposomal preparation of rubitecan, a water-insoluble derivative of camptothecin with potential antineoplastic activity. Rubitecan (or 9-nitro-20 (S)-camptothecin) and its active metabolite 9-aminocamptothecin (9-AC) selectively stabilize topoisomerase I-DNA covalent complexes during S-phase, thereby inhibiting religation of topoisomerase I-mediated single-strand DNA breaks and producing potentially lethal double-strand DNA breaks when encountered by the DNA replication machinery. This agent is formulated with dilauroylphosphatidylcholine and nebulized in particle sizes of 1.2-1.6 micrometer mass median aerodynamic diameter.

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