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Ruthenium-based Photosensitizer TLD1411

National Cancer Institute

Source

National Cancer Institute. *Ruthenium-based Photosensitizer TLD1411*. NCI Thesaurus. Code C148182.

A ruthenium-based photosensitizer (PS), that can potentially be used for photodynamic therapy (PDT). Upon intratumoral administration, the ruthenium-based PS TLD1411 targets mitochondria in tumor cells. Upon PDT, TLD1411 produces singlet molecular oxygen (O₂), and induces a reactive oxygen species (ROS)-mediated tumor cell apoptosis.