八烷氧基萘酞菁锌的激发三重态性质及光动力抗癌活性

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摘要 采用激光闪光光解技术测定了系列八烷氧基萘酞菁锌配合物ZnNc(OR)8(R=C4H9,C8H17,C12H25) 激发三重态的寿命,研究了该系列化合物光敏化产生单重态氧的能力和对HL60癌细胞的光动力活性,并探讨了它们作为光敏剂在肿瘤光动力治疗中的光敏反应机制。

关键词 萘P 烷氧基 酞菁 激发态 抗癌活性 光敏化

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Triplet-state properties and photodynamic anti-cancer activities of zinc octaalkoxy naphthalocynines

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Abstract The triplet-state lifetime of a series of zinc octaalkoxy naphthalocynines ZnNc(OR)8 (R=C4H9,C8H17,C12H25) were obtained by Laserflash photolysis. The abilities for photo-generating singlet oxygen and their photodynamic activities against HL60 cancer cell were investigated, and the photosensitization reaction mechanism of the title compounds as photosensitizers in photodynamic therapy was discussed.

Key words NAPHTHALENE P ALKOXYL GROUP PHTHALOCYANIN (=PHTHALOCYANINE) EXCITED STATE ANTINEOPLASTIC ACTIVITY PHOTOSENSITIZATION

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