

A Novel Photonuclease; Bromofluoroacetophenone Analogs

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The photoinducible DNA cleaving activities of bromofluoroacetophenones as a novel photonuclease were investigated. The photolytic behavior and DNA cleaving activity of fluorine derivative were compared with those of non-fluorine substituted compound, 4'-bromoacetophenones. Although the DNA cleaving activities of fluorine analogs were similar with those of 4'-bromoacetophenones, *o*-bromo-*p*-fluoro derivatives gave the better DNA cleaving activities than *p*-bromo-*o*-fluoro derivatives did.