

NONCOVALENTLY ASSEMBLED DYAD COMPOSED OF METALLOPORPHYRIN AND RUTHENIUM TRI-SBIPYRIDINE

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Light-activated photochemical molecular device have recently attracted great attention. Photoinduced intramolecular electron transfer is an useful method of the conversion of light into chemical energy, adopted in natural photosynthesis. one of them. Covalently linked electron donor-acceptor systems have been subjects of great attention, but require sometimes laborious synthetic works. In this context, we try to prepare donor-acceptor dyad assembled by noncovalent interaction. Ruthenium trisbipyridine complex containing pyridine ring was prepared. Axial coordination of pyridine moiety on zinc tetraphenylporphyrin leads to the formation of noncovalently linked donor-acceptor system.

