

DESIGN AND SYNTHESIS OF AMBIENT LIGHT STABLE 3-TRIFLUOROMETHYL-3-ARYLDIAZIRINE PHOTO PROBES. Arun Babu Kumar and Roman Manetsch,*
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3-trifluoromethyl-3-phenyldiazirine offers very good selectivity and resistance against pseudo-labeling but its photo lability is such that it undergoes photodecomposition even under ambient light condition. This character of the 3-trifluoromethyl-3-phenyldiazirine makes its use cumbersome and restricting it's use under constant darkness. Here in, we have developed a photolabel that has similar very good selectivity and resistance against pseudo-labeling as 3-trifluoromethyl-3-phenyldiazirine but enhanced stability to ambient light condition. The development of this photolabel is of immense significance since the cumbersome ordeal of working in the darkness, when dealing with diazirine photolabels, could be completely eliminated.