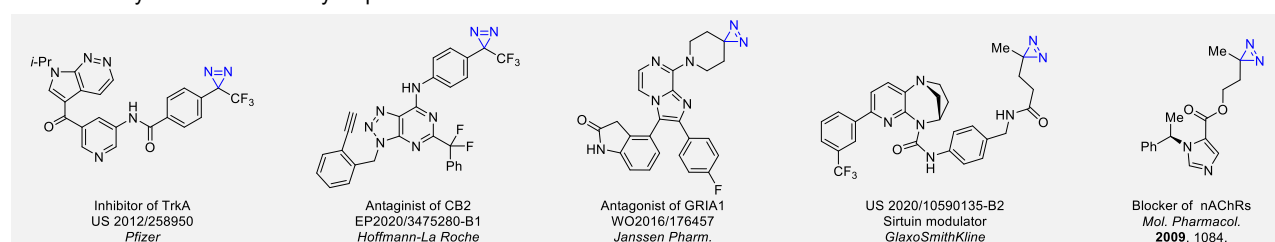
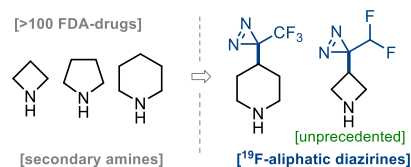


CF₃-Diazirines for photoaffinity labeling

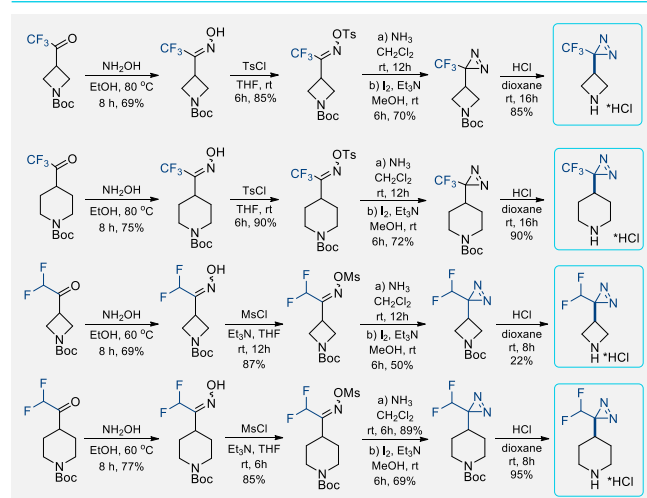
Y. Kornii, O. Shablykin, T. Tarasiuk, O. Stepaniuk, V. Matvienko, D. Aloslyn, N. Zahorodniuk, I. Sadkova, P. K. Mykhailiuk

Introduction and Aim

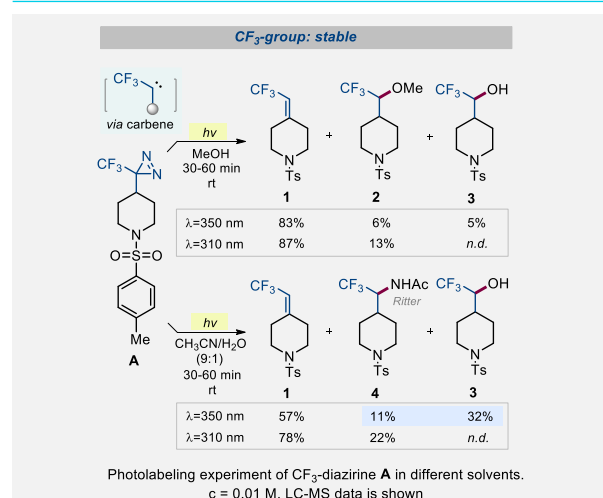
In 1980, *Brunner* demonstrated that the CF₃-substituted aromatic diazirines were more useful as photoaffinity labels, because the undesired isomerization products - CF₃-diazo compounds CF₃C(N₂)Ar, - were inert and did not cause the non-selective labeling.¹⁻³ Unexpectedly, chemists almost did not use aliphatic trifluoromethyl diazirines before. Moreover, these compounds were mostly unknown from the synthetic standpoint. We addressed this gap in chemistry: we elaborated a general practical method for trifluoromethyl and difluoromethyl aliphatic diazirines.⁴



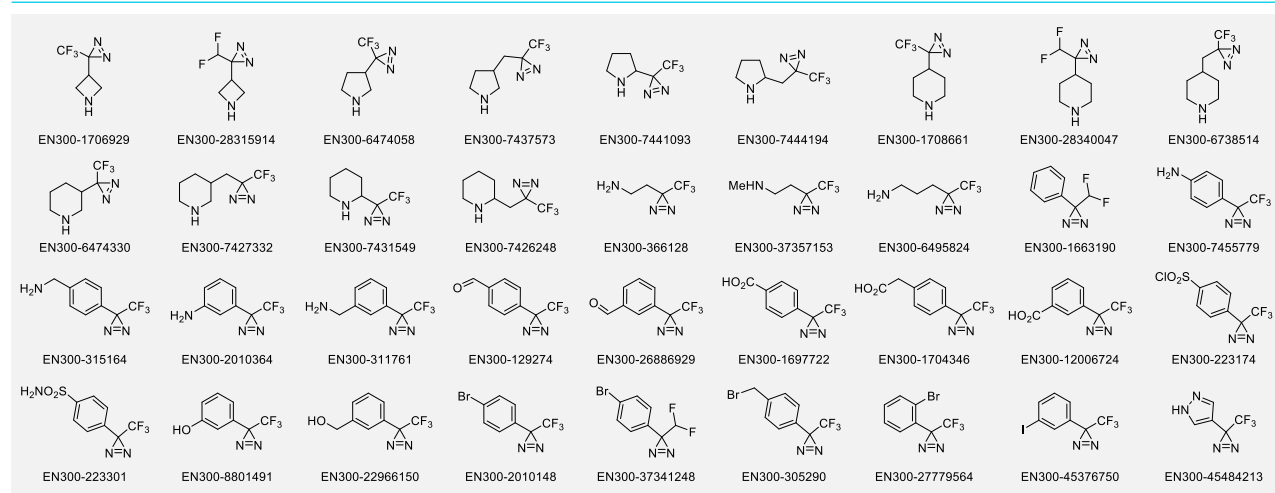
Synthesis



Modifications



Results



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