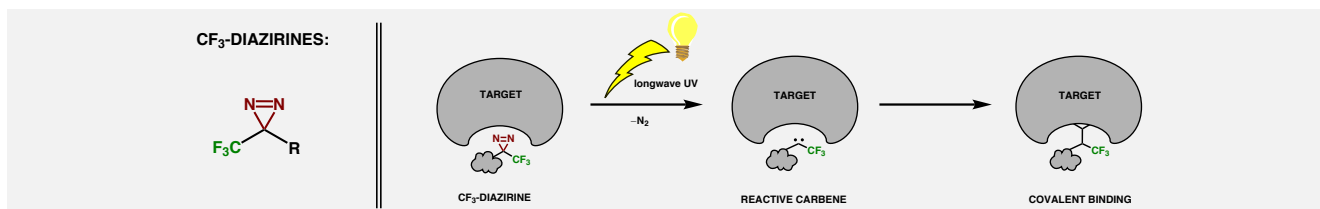


CF₃-Diazirines for photoaffinity labeling

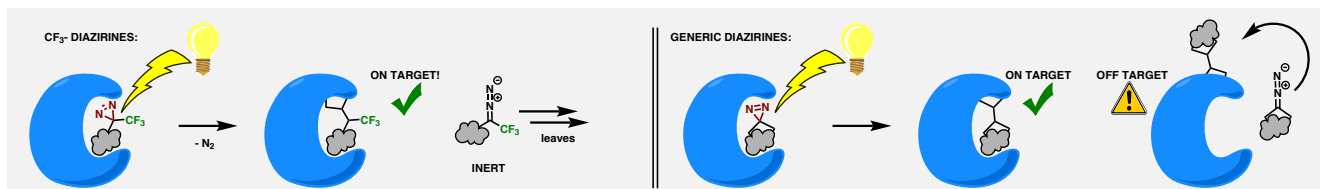
Introduction

Diazirines are the smallest molecules used in photochemical cross-linking and photoaffinity labeling approaches. Light radiation transfers them into highly reactive carbenes that attach to the molecular fragment in their immediate vicinity.¹ However, unwanted reactions may occur and scramble the labeling process,² unless... a CF₃-group comes to help! Our set of CF₃-diazirines has been developed to make derived probe molecules act at the time and place you shine light on them, not elsewhere.³

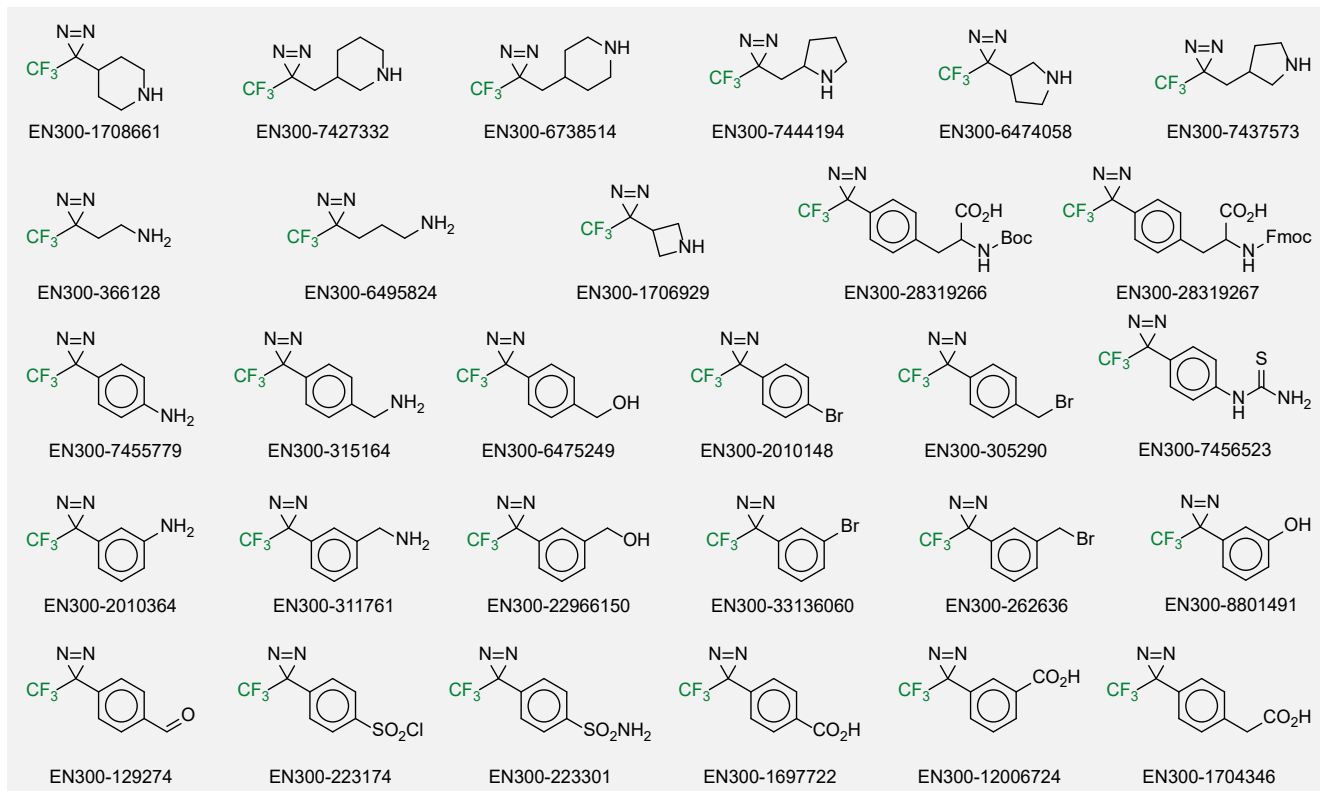


Key advantage

A common problem with diazirine photo-labeling is formation of diazo species that release carbenes with a time lag allowing diffusion away from the intended binding site and off-target binding. In 1980, *Brunner et al.* invented CF₃-diazirines to mitigate this mechanism.⁴ The off-target mechanism is reduced due to the notoriously low reactivity of CF₃-diazo compounds.



We offer: more than 30 of CF₃-diazirines from stock on a 5-10 g scale.



References

1. L. Dubinsky et al. *Bioorg. Med. Chem.* **2012**, *2*, 554.
2. A. V. West et al. *J. Am. Chem. Soc.* **2021**, *143*, 6691.

3. Y. Komii et al. *J. Org. Chem.* **2022**, *in press*.
4. J. Brunner et al. *J. Biol. Chem.* **1980**, *255*, 3313.



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