



## Electronically Activated Strained Alkynes

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Inventors: Jennifer Schomaker, Eileen Burke

### The Invention

Compounds of Formula I: [Image Omitted] wherein: R1 and R1' are independently selected from hydrogen, halogen, C1-to-C12 linear or branched hydroxyalkyl, C1-to-C12 linear or branched halo-alkyl, carboxy, carboxyalkyl, amido, N-alkylamido, N,N-dialkylamido, carbamoyloxy, N-alkylcarbamoyloxy, and N,N-dialkylcarbamoyloxy, provided that that R1 and R1' are not simultaneously hydrogen; R2 and R2' hydrogen, halogen, C1-to-C12 linear or branched hydroxyalkyl, C1-to-C12 linear or branched halo-alkyl, carboxy, carboxyalkyl, amido, N-alkylamido, N,N-dialkylamido, carbamoyloxy, N-alkylcarbamoyloxy, and N,N-dialkylcarbamoyloxy, provided that that R2 and R2' are not simultaneously hydrogen; R3 is selected from hydrogen, C1 to C12 linear or branched alkyl, and nitrogen protecting groups; X is oxygen or nitrogen; when X is oxygen, R4 is absent; and when X is nitrogen, R4 is selected from H, C1-to-C12 linear or branched alkyl, and nitrogen protecting groups.

### Additional Information

#### For More Information About the Inventors

- [Jennifer Schomaker](#)

#### Tech Fields

- [Research Tools : Detection](#)
- [Research Tools : Protein interactions & function](#)

For current licensing status, please contact Mark Staudt at [mstaudt@warf.org](mailto:mstaudt@warf.org) or 608-960-9845