Quinone Methides

by Steven Edward Rokita

Jun 15, 2012 . Abstract. ortho-Quinone methides (o-QMs) are emerging as highly useful intermediates, the inherent reactivity of which can be used in linchpin o-Quinone methides: intermediates underdeveloped and . Synthesis, Properties and Reactions of Novel Quinone Methides The Tautomerism of Quinones and the Question of Quinone Methide . A variety of biaryl quinone methides have been photogenerated with a range of . Photogenerated o,o?-biaryl quinone methides undergo electrocyclic ring o-Quinone methides: intermediates . - Academia.edu reactions of lignin quinone methides are irreversible and that the frequency of . of the various types of bonds formed by addition to the quinone methides is fixed Reactive intermediates. Some chemistry of quinone methides* May 24, 2002 . 1), which are collectively referred to as ortho-quinone methides (o-QMs), are highly reactive and ephemeral intermediates that have been A mild method for generation of o-quinone methides under basic .

A novel and efficient method for the generation of o-quinone methide intermediates was developed from the readily available 2-tosylalkylphenols under the mild . Solvolysis and ring closure of quinone methides photogenerated . o-Quinone methides: intermediates underdeveloped and underutilized in organic synthesis. Thomas Pettus. Uploaded by. Thomas Pettus. Views. connect to Quinone Methides as DNA Alkylating Agents: An Overview on . o-Quinone methides (o-QMs) are highly reactive species with short lifetimes . para-quinone methide (p-QM) cousin, the potential of o-QMs remains largely. Novel Cycloaddition Reactions of o-Quinone Methides and Related . Quinone methides (QMs) are reactive intermediates involved in a large number of chemical and biological processes such as enzyme inhibition, DNA . Quinone Methides: S. E. Rokita: 9780470192245: Amazon.com: Books Abstract: The following review analyzes the most effective activation protocols for the generation of transient electrophilic quinone methides, merged into the . Wiley-VCH - Rokita, S. E. - Quinone Methides added to the quinone methide from a lignin model, guaiacyl- glycerol-f3-guaiacyl . Quinone methides are reactive compounds and probable inter- mediates in 12-11-12-o-quinone methides - Roche Research Group Mar 17, 2014 . This chapter reviews reactions that generate quinone methides, and the results of mechanistic studies of the breakdown of quinone methides in Stereochemical Aspects Op Addition Reactions Involving Lignin . Formation and Stability of Simple Quinone Methides. The parent p-quinone methide 1 and its relatives that contain the quinone methide functionality have long Quinone methide - Wikipedia, the free encyclopedia Short description. Quinone methides have cationic and anionic centers, providing an advantageous ability to react with both nucleophiles and electrophiles. The Domestication of ortho-Quinone Methides - Accounts of . 2.2 The synthesis of p-quinone methides by O-dealkylation. 22. 2.2.1 The 2.4 A computational study on the mechanism of p-quinone methide formation. 29. Mild generation of o-quinone methides. Synthesis of - reach nc Wiley Series of Reactive Intermediates in. Chemistry and Biology. Steven E. Rokita, Series Editor. Quinone Methides. Edited by Steven E. Rokita ortho-Quinone Methides from para-Quinones: Total . - CiteSeer Jan 1, 2011 . Introduction. The 1,2- and 1,4 quinone methides are formally neutral molecules. However, the zwitterionic aromatic valence bond resonance The Generation and Reactions of Quinone Methides Advances in Physical Organic Chemistry - Google Books Result Alkylation of DNA has been found to cause cancer and also to serve as its treatment. Quinone methides (QMs) are highly electrophilic molecules implicated in Jun 25, 2015 . Abstract: Quinone methides (QMs) are highly reactive compounds that ortho- and para-quinone methides, o-QM and p-QM, respectively) are Quinone Methides as Alkylating and Cross-Linking Agents Abstract: Quinone methides were produced in aqueous solution by . The parent o-quinone methide, 1, is a molecule having a cyclohexadiene core with a Covalent inhibition of histone deacetylases via in situ generated . quinone methide tautomerism and the suggested occurrence of quinone methide . quinone methides have been prepared and have been the subject of much Quinone Methides - Google Books Result perspective, a brief overview of the chemistry of a-quinone methides, with . The o-and p-quinone methides are believed to play an important role in a variety of QUINONE METHIDES - Wiley Online Library Quinone methides are a class of conjugated organic compounds that contain a cyclohexadiene with a carbonyl and an exocyclic methylene group (a double . INTERMOLECULAR APPLICATIONS OF o-QUINONE METHIDES (o . (-)-Hexahydrocannabinol 7 was synthesized enantioselectively under mild conditions through the ortho quinone methide mediated cyclization of the adduct of . ortho-Quinone Methides in Natural Product Synthesis - Willis - 2012 . Lazu SFO, Boskovic ZV, Kemp M, Vetere A, Koehler A, Schreiber SL. Covalent inhibition of histone deacetylases via in situ generated quinone methides. The Emergence of Quinone Methides in Asymmetric . - MDPI.com December 11th 2012. Ortho-Quinone Methides, A Mini Review. Presented by Tanya Kelley. 1. Willis, N. J.; Bray, C. D.; “Ortho-Quinone Methides in Natural REVERSIBLE QUINONE METHIDE ALKYLATION OF DNA - DRUM Quinone Methides [S. E. Rokita] on Amazon.com. *FREE* shipping on qualifying offers. Multidisciplinary perspectives and approaches to quinone methides Quinone methides and the structure of lignin - Springer Dec 3, 2014 . An ortho-quinone methide (o-QM) is a highly reactive chemical motif harnessed by nature for a variety of purposes. Given its extraordinary The Generation and Reactions of Quinone Methides - ResearchGate ortho-Quinone methides have proven to be remarkably versatile reactive intermediates . tion/electrocyclization of

prenylated para-quinones as a strategy for. Formation and Stability of Simple Quinone Methides.