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**A facile one-pot synthesis of 8-oxo-7,8-dihydro-(2′-deoxy)adenosine in water**

* [Chryssostomos Chatgilialoglu](http://www.sciencedirect.com/science/article/pii/S0040403905025633)[a](http://www.sciencedirect.com/science/article/pii/S0040403905025633#aff1),
* [Maria Luisa Navacchia](http://www.sciencedirect.com/science/article/pii/S0040403905025633)[a](http://www.sciencedirect.com/science/article/pii/S0040403905025633#aff1), ,,
* [Al Postigo](http://www.sciencedirect.com/science/article/pii/S0040403905025633)[b](http://www.sciencedirect.com/science/article/pii/S0040403905025633#aff2)

## Abstract

Reaction of 2-mercaptoethanol with 8-bromo-2′-deoxyadenosine and 8-bromo-adenosine in aqueous solution and in the presence of triethylamine gave the 8-oxo-adenine derivatives in very good yields. Some mechanistic details are reported.



## Keywords

* DNA damage;
* Nucleosides;
* 8-Oxo-7,8-dihydro-2′-deoxyadenosine;
* Mercaptoethanol;
* 8-Bromo-2′-deoxyadenosine

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