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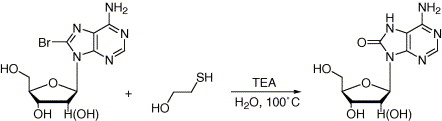
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**A facile one-pot synthesis of 8-oxo-7,8-dihydro-(2′-deoxy)adenosine in water**

* [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

Corresponding author. Tel.: +39 051 6398291; fax: +39 051 63983491.

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### Chryssostomos Chatgilialoglu

ISOF, Consiglio Nazionale delle Ricerche, Via P. Gobetti 101, 40129 Bologna, Italy

### Maria Luisa Navacchia

ISOF, Consiglio Nazionale delle Ricerche, Via P. Gobetti 101, 40129 Bologna, Italy

Corresponding author. Tel.: +39 051 6398291; fax: +39 051 63983491.

M.L.Navacchia@isof.cnr.it

### Al Postigo

University of Belgrano-Conicet, Villanueva 1324, 1426, Buenos Aires, Argentina