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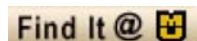
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## Redox regulation of protein tyrosine phosphatase 1B by peroxy-monophosphate (=O3POOH).

LaButti JN, Chowdhury G, Reilly TJ, Gates KS

*J Am Chem Soc* 2007 May 2 **129**(17):5320-1 [[abstract on PubMed](#)][[citations on Google Scholar](#)] [[related articles](#)] [[full text](#)]Selected by | Amy Barrios **NEW**

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## Faculty Comments

### Faculty Member

#### Amy Barrios

University of Southern California, United States of America  
CHEMICAL BIOLOGY

- Confirmation  
 Hypothesis  
 New Finding

### Comments

**Redox regulation of protein tyrosine phosphatases (PTPs) is an important bioregulatory mechanism in vivo, and has also been exploited in this paper to inhibit PTP activity in vitro.**

Peroxy-monophosphate was found to reversibly inhibit PTP1B, even in the presence of 1 mM glutathione. This approach may be used to design potent, selective redox inhibitors of PTP activity.

Competing interests: None declared

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## Faculty Comments

### How to cite the Faculty of 1000 Biology evaluation(s) for this paper

#### 1) To cite all the evaluations for this article:

Faculty of 1000 Biology: evaluations for LaButti JN et al *J Am Chem Soc* 2007 May 2 129 (17) :5320-1  
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