

## Accepted Manuscript

Glycerol Kinase of African Trypanosomes Possesses an Intrinsic Phosphatase Activity

Emmanuel Oluwadare Balogun, Daniel Ken Inaoka, Tomoo Shiba, Suzumi M. Tokuoka, Fuyuki Tokumasu, Kimitoshi Sakamoto, Yasutoshi Kido, Paul A.M. Michels, Yoh-Ichi Watanabe, Shigeharu Harada, Kiyoshi Kita

PII: S0304-4165(17)30245-3  
DOI: doi:[10.1016/j.bbagen.2017.07.028](https://doi.org/10.1016/j.bbagen.2017.07.028)  
Reference: BBAGEN 28908

To appear in: *BBA - General Subjects*

Received date: 3 May 2017  
Revised date: 28 July 2017  
Accepted date: 29 July 2017

Please cite this article as: Emmanuel Oluwadare Balogun, Daniel Ken Inaoka, Tomoo Shiba, Suzumi M. Tokuoka, Fuyuki Tokumasu, Kimitoshi Sakamoto, Yasutoshi Kido, Paul A.M. Michels, Yoh-Ichi Watanabe, Shigeharu Harada, Kiyoshi Kita, Glycerol Kinase of African Trypanosomes Possesses an Intrinsic Phosphatase Activity, *BBA - General Subjects* (2017), doi:[10.1016/j.bbagen.2017.07.028](https://doi.org/10.1016/j.bbagen.2017.07.028)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**Glycerol Kinase of African Trypanosomes Possesses an Intrinsic Phosphatase Activity**

Emmanuel Oluwadare Balogun,<sup>a,b,\*</sup> Daniel Ken Inaoka,<sup>a,c</sup> Tomoo Shiba,<sup>d</sup> Suzumi M. Tokuoka,<sup>e</sup> Fuyuki Tokumasu,<sup>e</sup> Kimitoshi Sakamoto,<sup>f</sup> Yasutoshi Kido,<sup>a</sup> Paul A.M. Michels,<sup>g</sup> Yoh-Ichi Watanabe,<sup>a</sup> Shigeharu Harada,<sup>d</sup> Kiyoshi Kita<sup>a,c,\*</sup>

<sup>a</sup> Department of Biomedical Chemistry, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan

<sup>b</sup> Department of Biochemistry, Ahmadu Bello University, Zaria 2222, Nigeria

<sup>c</sup> School of Tropical Medicine and Global Health, Nagasaki University 1-12-4, Sakamoto, Nagasaki 852-8523, Japan

<sup>d</sup> Department of Applied Biology, Graduate School of Science and Technology, Kyoto Institute of Technology, Sakyo-ku, Kyoto 606-8585, Japan

<sup>e</sup> Department of Lipidomics, Faculty of Medicine, The University of Tokyo, Hongo 7-3-1, Bunkyo-ku, Tokyo, Japan

<sup>f</sup> Faculty of Agriculture and Life Science, Hirosaki University, Hirosaki 036-8561, Japan

<sup>g</sup> Centre for Immunity, Infection and Evolution and Centre for Translational and Chemical Biology, School of Biological Sciences, University of Edinburgh, King's Buildings, Charlotte Auerbach Road, Edinburgh EH9 3FL, UK

**Running Title:** A novel bifunctional kinase/phosphatase

**\*Corresponding authors:** E.O.B., Department of Biomedical Chemistry, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan. Tel.: 81-3-5841-8202; Fax: 81-3-5841-3444; E-mail: balogun1@m.u-tokyo.ac.jp; K.K., School of Tropical Medicine and Global Health, Nagasaki University 1-12-4, Sakamoto, Nagasaki 852-8523, Japan. Tel.: 81-95-819-7575; Fax: 81-95-819-7892; E-mail: kitak@nagasaki-u.ac.jp

Download English Version:

<https://daneshyari.com/en/article/5507873>

Download Persian Version:

<https://daneshyari.com/article/5507873>

[Daneshyari.com](https://daneshyari.com)