FEBS 23615 FEBS Letters 473 (2000) 123

## Corrigendum

## Corrigendum to: Distinct mechanisms of antibody-mediated enzymatic reactivation in $\beta$ -galactosidase molecular sensors

[FEBS Letters 438 (1998) 267–271]<sup>1</sup>

J.X. Feliu, E. Ramírez, A. Villaverde\*

Institut de Biologia Fonamental and Departament de Genètica i Microbiologia, Universitat Autònoma de Barcelona, Bellaterra, 08193 Barcelona, Spain

The authors had previously explored the reactivation mechanisms of three β-galactosidase-based enzymatic sensors, namely M278VP1, JX772A and JX795A. However, cross-contamination between the JX772A and JX795A protein stocks used for this purpose has since been noticed. After a carefully repeated analysis of new pure protein stocks, the authors have

observed a very poor reactivation of JX772A upon antibody binding (within the experimental background) and have also determined new parameters for JX7795A, this enzyme clearly belonging to the class II sensors. These data are given in corrected Tables 1 and 2.

Table 1 Enzymatic properties of recombinant proteins with or without antibodies

Protein	Without antibody			With antibody			
	$K_{\rm m}~({\rm mM})$	$k_{\rm cat}~({\rm s}^{-1})$	$k_{\rm cat}/K_{\rm m}~({\rm mM~s^{-1}})$	K <sub>m</sub> (mM)	$k_{\rm cat}~({\rm s}^{-1})$	$k_{\rm cat}/K_{\rm m}~({\rm mM~s^{-1}})$	
M278VP1	$0.3100 \pm 0.0970^{a}$	1 496 ± 173	4825±1610	$0.1384 \pm 0.0165$	1 357 ± 54	9 805 ± 1 232	
JX795A	$0.1065 \pm 0.0258$	$2640 \pm 158$	$24800\pm4215$	$0.1075 \pm 0.0101$	$5410 \pm 196$	$50325 \pm 4502$	

<sup>&</sup>lt;sup>a</sup>Standard deviation values.

Table 2 Features of  $\beta$ -galactosidase molecular sensors

Protein	Sensor properties										
	Specific activity (U/µg)	Reactiva- tion factor <sup>b</sup>	$K_{ m m}$ variation factor <sup>b</sup>	$k_{\rm cat}$ variation factor <sup>b</sup>	Responsiveness to mAb 3E5	Responsiveness to Fab 3E5	Distances between insertions (Å) <sup>c</sup>	Distances to active sites (Å) <sup>d</sup>	Class		
M278VP1 JX795A	$170 \pm 43^{a}$ $675 \pm 102$	2.0 1.8	0.46 1.00	0.90 2.01	yes yes	no yes	51/58/55 74/91/57	49/19 15/56	I II		

<sup>&</sup>lt;sup>a</sup>Standard deviation values.

\*Corresponding author. Fax: (34)-93-581 2011.

E-mail: a.villaverde@cc.uab.es

0014-5793/00/\$20.00 © 2000 Federation of European Biochemical Societies. All rights reserved.

PII: S0014-5793(00)01481-2

<sup>&</sup>lt;sup>b</sup>Reactivation was induced by immune guinea-pig serum at a 1:10 dilution.

 $<sup>^{</sup>c}$ Clockwise atomic distances between one insertion site and the remaining three of the assembled tetramer. The C $\alpha$  of residues 278 and 795 have been taken as references for determination.

<sup>&</sup>lt;sup>d</sup>Distances between the residues indicated in  $^c$  and either the active site of the same monomer or the one sharing the activating interface. C $\alpha$  of Glu<sub>461</sub>, which is involved in the catalytic centre [29], has been used as reference.

<sup>&</sup>lt;sup>1</sup> PII of original article: S0014-5793(98)01315-5