Contents

Corrigendum

A Single Residue Influences the Reaction Mechanism of Ammonia Lyases and Mutases

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While reanalyzing the data on a mutant of the phenylalanine ammonia lyase from *Petroselinum crispum* (*pc*PAL), the authors of this Communication (DOI: 10.1002/ anie.200900337) observed confusion between sequence analysis and protein expression. Hence, the kinetic values provided for this *pc*PAL-Glu484Asn mutant are not correct. The corrected values are given in Table 1 of this Corrigendum.

Table 1 of this Corrigendum: Corrected kinetic constants for the pcPAL Glu484Asn mutant.

Enzyme	Substrate	K _м [тм]	$k_{\text{cat.}} [s^{-1}]$	$k_{\rm cat}/K_{\rm M}[{\rm s}^{-1}{\rm m}^{-1}]$
pcPAL E484N	L-Phe	$\textbf{0.22} \pm \textbf{0.07}$	0.10 ± 0.010	455
	L-m-Tyr	$\textbf{0.11} \pm \textbf{0.01}$	$\textbf{0.04} \pm \textbf{0.015}$	364
	L-Tyr	0.87 ± 0.39	$\textbf{0.004} \pm \textbf{0.001}$	5

However, it must be emphasized, that this correction does not affect the conclusions made in the original Communication. Although the activity of this mutant is significantly lower than reported in the published article, the differences in the kinetic constants of the mutant towards L-m-Tyr and L-Phe is still significant (2.5-fold higher $k_{\rm cat}$ and an increased $K_{\rm M}$ value). Only very low activity towards L-Tyr was detected, thus explaining the inactivity of the tested double mutant Phe137His-Glu484Asn. This observation underlines the statement given in the article that the differences between PAL and TAL are not exclusively based on two residues but are also influenced by other factors.

Prof. Poppe suggested we cite the following publication instead of reference [13] given in the published Communication.

[13] S. Pilbák, A. Tomin, J. Rétey, L. Poppe, FEBS J. 2006, 273, 1004-1019.