## Accepted Manuscript

Title: Covalently immobilized Trp60Cys mutant of  $\omega$ -transaminase from *Chromobacterium violaceum* for kinetic resolution of racemic amines in batch and continuous-flow modes

Authors: Emese Abaházi, Péter Sátorhelyi, Balázs Erdélyi, Beáta G. Vértessy, Henrik Land, Csaba Paizs, Per Berglund, László Poppe

PII: \$1369-703X(18)30031-7

DOI: https://doi.org/10.1016/j.bej.2018.01.022

Reference: BEJ 6871

To appear in: Biochemical Engineering Journal

Received date: 13-8-2017 Revised date: 16-1-2018 Accepted date: 19-1-2018

Please cite this article as: Emese Abaházi, Péter Sátorhelyi, Balázs Erdélyi, Beáta G.Vértessy, Henrik Land, Csaba Paizs, Per Berglund, László Poppe, Covalently immobilized Trp60Cys mutant of ω-transaminase from Chromobacterium violaceum for kinetic resolution of racemic amines in batch and continuous-flow modes, Biochemical Engineering Journal https://doi.org/10.1016/j.bej.2018.01.022

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.



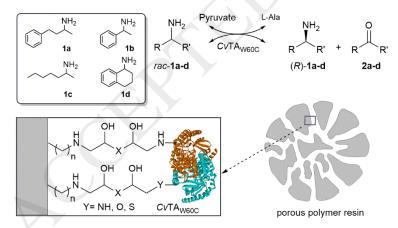
## ACCEPTED MANUSCRIPT

Covalently immobilized Trp60Cys mutant of  $\omega$ -transaminase from *Chromobacterium violaceum* for kinetic resolution of racemic amines in batch and continuous-flow modes

Emese Abaházi,<sup>a</sup> Péter Sátorhelyi,<sup>b</sup> Balázs Erdélyi,<sup>b</sup> Beáta G. Vértessy,<sup>c, d</sup> Henrik Land,<sup>e</sup> Csaba Paizs, f Per Berglund<sup>e</sup> and László Poppe\*a,f,g

- <sup>a</sup> Department of Organic Chemistry and Technology, Budapest University of Technology and Economics, Műegyetem rkp. 3, Budapest, H-1111, Hungary
- <sup>b</sup> Fermentia Microbiological Ltd., Berlini út 47-49, Budapest, H-1045, Hungary
- <sup>c</sup> Department of Applied Biotechnology and Food Science, Budapest University of Technology and Economics, Műegyetem rkp. 3, Budapest, H-1111, Hungary
- <sup>d</sup> Institute of Enzymology, Research Center for Natural Sciences, Hungarian Academy of Science, H-1117 Budapest, Hungary
- <sup>e</sup> KTH Royal Institute of Technology, Division of Industrial Biotechnology, School of Biotechnology, AlbaNova University Center, SE-106 91 Stockholm, Sweden
- <sup>f</sup> Biocatalysis and Biotransformation Research Centre, Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University of Cluj-Napoca, Arany János Str. 11, RO-400028 Cluj-Napoca, Romania
- <sup>g</sup> SynBiocat Ltd., Szilasliget u 3, Budapest, H-1172, Hungary
- \* Corresponding author: poppe@mail.bme.hu

#### **Graphical abstract**



#### **Highlights**

• The enhanced *Cv*TA<sub>W60C</sub> mutant was covalently immobilized on bisepoxide-activated polymeric resins

### Download English Version:

# https://daneshyari.com/en/article/6482273

Download Persian Version:

https://daneshyari.com/article/6482273

<u>Daneshyari.com</u>