

Accepted Manuscript

Title: Liquid chromatographic enantioseparation of carbocyclic β -amino acids possessing limonene skeleton on macrocyclic glycopeptide-based chiral stationary phases

Authors: Tímea Orosz, Nóra Grecsó, Gyula Lajkó, Zsolt Szakonyi, Ferenc Fülöp, Daniel W. Armstrong, István Ilisz, Antal Péter



PII: S0731-7085(17)30646-5
DOI: <http://dx.doi.org/doi:10.1016/j.jpba.2017.06.010>
Reference: PBA 11316

To appear in: *Journal of Pharmaceutical and Biomedical Analysis*

Received date: 16-3-2017
Revised date: 1-6-2017
Accepted date: 6-6-2017

Please cite this article as: Tímea Orosz, Nóra Grecsó, Gyula Lajkó, Zsolt Szakonyi, Ferenc Fülöp, Daniel W. Armstrong, István Ilisz, Antal Péter, Liquid chromatographic enantioseparation of carbocyclic β -amino acids possessing limonene skeleton on macrocyclic glycopeptide-based chiral stationary phases, *Journal of Pharmaceutical and Biomedical Analysis* <http://dx.doi.org/10.1016/j.jpba.2017.06.010>

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.

Liquid chromatographic enantioseparation of carbocyclic β -amino acids possessing limonene skeleton on macrocyclic glycopeptide-based chiral stationary phases

Tímea Orosz^a, Nóra Grecsó^{a,b}, Gyula Lajkó^{a,b}, Zsolt Szakonyi^b, Ferenc Fülöp^b, Daniel W. Armstrong^c, István Ilisz^{a*}, Antal Péter^a

^a*Department of Inorganic and Analytical Chemistry, University of Szeged, H-6720 Szeged, Dóm tér 7, Hungary*

^b*Institute of Pharmaceutical Chemistry, University of Szeged, H-6720 Szeged, Eötvös u. 6, Hungary*

^c*Department of Chemistry and Biochemistry, University of Texas at Arlington, Arlington, TX 76019-0065, USA*

Keywords:

High-performance liquid chromatography (HPLC); enantiomer separation; carbocyclic β -amino acids; macrocyclic glycopeptide-based chiral stationary phases

Highlights

Enantiomers of carbocyclic β -amino acids possessing limonene skeleton were separated

Macrocyclic glycopeptide-based chiral stationary phases were thermodynamically characterized

Decreased retentions were accompanied with increased separation factors with increasing temperature

Correspondence to:

Dr. István Ilisz

Department of Inorganic and Analytical Chemistry, University of Szeged, H-6720 Szeged, Dóm tér 7, Hungary

E-mail: ilisz@chem.u-szeged.hu

Tel: ++36-62-544000/3656

Download English Version:

<https://daneshyari.com/en/article/5137737>

Download Persian Version:

<https://daneshyari.com/article/5137737>

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