

Accepted Manuscript

Title: Hydrophilic interaction liquid chromatography-tandem mass spectrometry for the quantitative analysis of mammalian-derived inositol poly/pyrophosphates

Authors: Masatoshi Ito, Natsuko Fujii, Christopher Wittwer, Ayumi Sasaki, Masayuki Tanaka, Tamara Bittner, Henning J. Jessen, Adolfo Saiardi, Shunya Takizawa, Eiichiro Nagata



PII: S0021-9673(18)31081-1
DOI: <https://doi.org/10.1016/j.chroma.2018.08.061>
Reference: CHROMA 359657

To appear in: *Journal of Chromatography A*

Received date: 8-4-2018
Revised date: 20-8-2018
Accepted date: 30-8-2018

Please cite this article as: Ito M, Fujii N, Wittwer C, Sasaki A, Tanaka M, Bittner T, Jessen HJ, Saiardi A, Takizawa S, Nagata E, Hydrophilic interaction liquid chromatography-tandem mass spectrometry for the quantitative analysis of mammalian-derived inositol poly/pyrophosphates, *Journal of Chromatography A* (2018), <https://doi.org/10.1016/j.chroma.2018.08.061>

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.

Hydrophilic interaction liquid chromatography-tandem mass spectrometry for the quantitative analysis of mammalian-derived inositol poly/pyrophosphates

Masatoshi Ito^a, Natsuko Fujii^b, Christopher Wittwer^c, Ayumi Sasaki^a, Masayuki Tanaka^a, Tamara Bittner^c, Henning J. Jessen^c, Adolfo Saiardi^d, Shunya Takizawa^b, Eiichiro Nagata^b

^aSupport Center for Medical Research and Education, ^bDepartment of Neurology, Tokai University School of Medicine, Isehara, Kanagawa 259-1193, Japan, ^cInstitute of Organic Chemistry, University of Freiburg, 79104 Freiburg, Germany, ^dCell Biology Unit, Medical Research Council Laboratory for Molecular Cell Biology, and Department of Cell and Developmental Biology, University College London, WC1E 6BT, United Kingdom.

Corresponding author: Eiichiro Nagata, M.D., Ph.D.

Department of Neurology, Tokai University School of Medicine, 143 Shimokasuya, Isehara, Kanagawa 259-1193, Japan

TEL: +81-463-93-1121 (ext. 2242); FAX: +81-463-92-6299; e-mail: enagata@is.icc.u-tokai.ac.jp

Highlights

- A novel HILIC-MS/MS method for the analysis of InsP₆ and InsP₇.
- MS parameters for InsP₆, InsP₇ and internal control ITPP-d₆ was optimized.
- Optimal condition for the HILIC separation of these InsPs was evaluated.

Download English Version:

<https://daneshyari.com/en/article/11016077>

Download Persian Version:

<https://daneshyari.com/article/11016077>

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