

Accepted Manuscript

Single-tube biosynthesis and extraction of U-13C and U-14C arachidonic acid from microcultures of *Mortierella alpina* for in vivo pharmacology and metabolic tracing studies

Rani J. Qasem

PII: S1056-8719(17)30522-1
DOI: doi:[10.1016/j.vascn.2018.02.001](https://doi.org/10.1016/j.vascn.2018.02.001)
Reference: JPM 6498

To appear in: *Journal of Pharmacological and Toxicological Methods*

Received date: 16 October 2017
Revised date: 22 January 2018
Accepted date: 1 February 2018

Please cite this article as: Rani J. Qasem , Single-tube biosynthesis and extraction of U-13C and U-14C arachidonic acid from microcultures of *Mortierella alpina* for in vivo pharmacology and metabolic tracing studies. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Jpm*(2018), doi:[10.1016/j.vascn.2018.02.001](https://doi.org/10.1016/j.vascn.2018.02.001)

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.



Single-tube biosynthesis and extraction of U-¹³C and U-¹⁴C arachidonic acid from microcultures of *Mortierella alpina* for *in vivo* pharmacology and metabolic tracing studies

Rani J. Qasem* qasemr@ksau-hs.edu.sa, raniqasem@yahoo.com

Department of Pharmacology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, 19104, USA

***Corresponding author at:** Department of Pharmaceutical Sciences, College of Pharmacy, King Saud bin Abdulaziz University for Health Sciences (KSAU-HS), King Abdullah International Medical Research Center (KAIMRC) and King Abdulaziz Medical City, Riyadh, Saudi Arabia.

List of abbreviations:

PUFA, Polyunsaturated Fatty Acid; IRMS, Isotope Ratio Mass Spectrometry; DPM, Disintegrations Per Minute; AA, Arachidonic Acid; DHA, Docosahexaenoic Acid; EPA, Eicosapentaenoic Acid; ETA, Eicosatrienoic Acid; SA, Stearic Acid; OA, Oleic Acid; LoA, Linoleic Acid; LLeA, Linolenic Acid; PA, Palmitic Acid; MA, Myristic Acid; Protein Standard Absolute Quantification (PSAQ).

ACC

Download English Version:

<https://daneshyari.com/en/article/8533771>

Download Persian Version:

<https://daneshyari.com/article/8533771>

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