ELECTRONIC SUPPORTING INFORMATION

A methodology for radiolabeling of the endocannabinoid 2-arachidonoylglycerol (2-AG)

Richard I. Duclos, Jr.,* Meghan Johnston, Subramanian K. Vadivel,

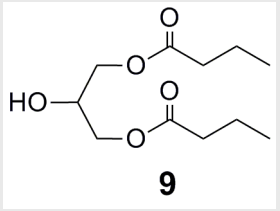
Alexandros Makriyannis, Sherrye T. Glaser, and S. John Gatley

Table of Contents

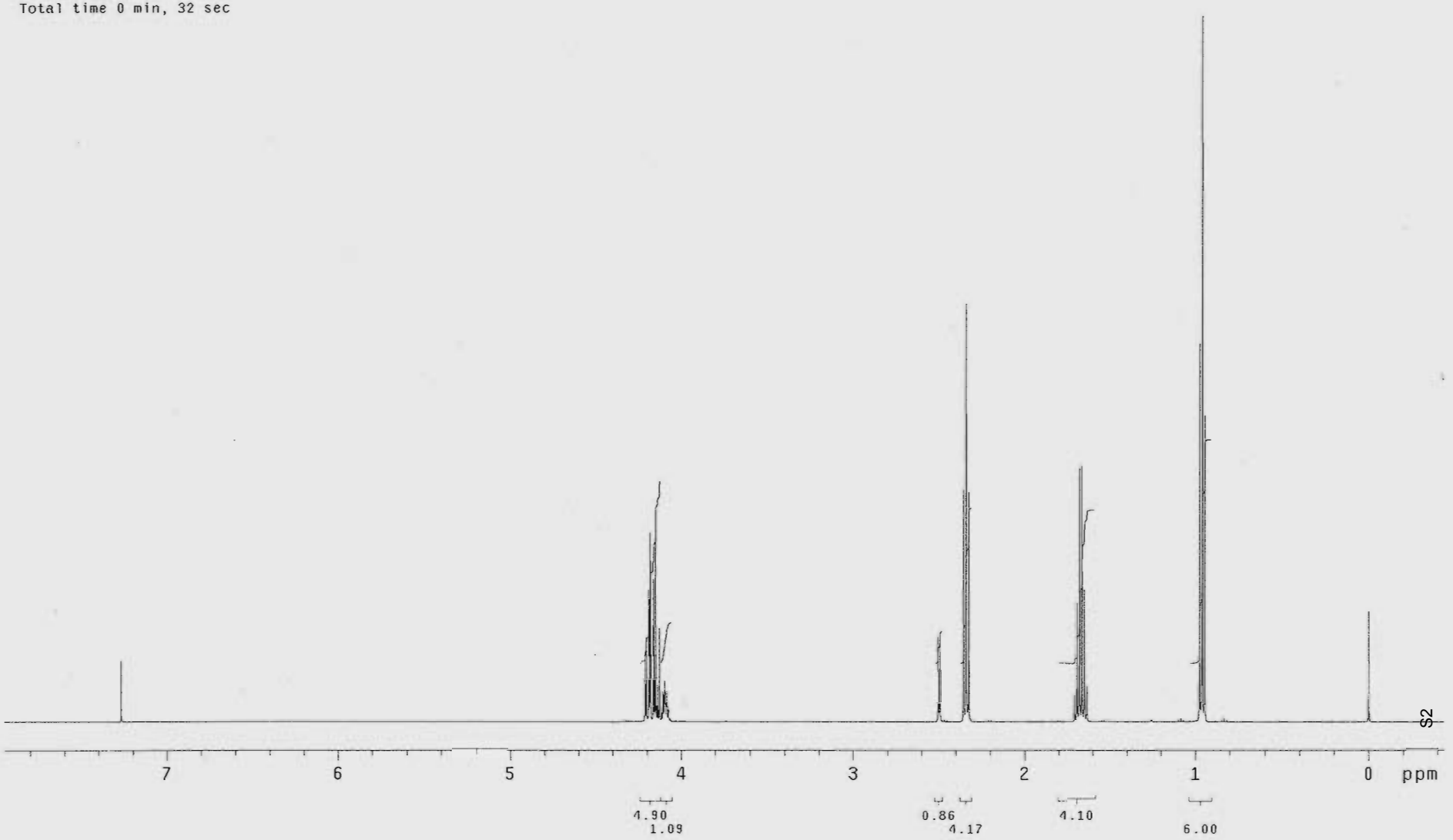
1,3-dibutyrate glycerol
after re-purification
chloroform

Pulse Sequence: s2pul
Solvent: CDCl3
Ambient temperature
INOVA-500 "waters500"

Pulse 42.2 degrees
Acq. time 2.048 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7029680 MHz
DATA PROCESSING
FT size 32768
Total time 0 min, 32 sec



9

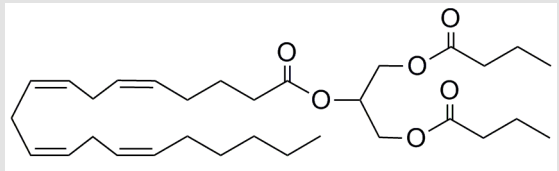


MJ0668 good

chloroform

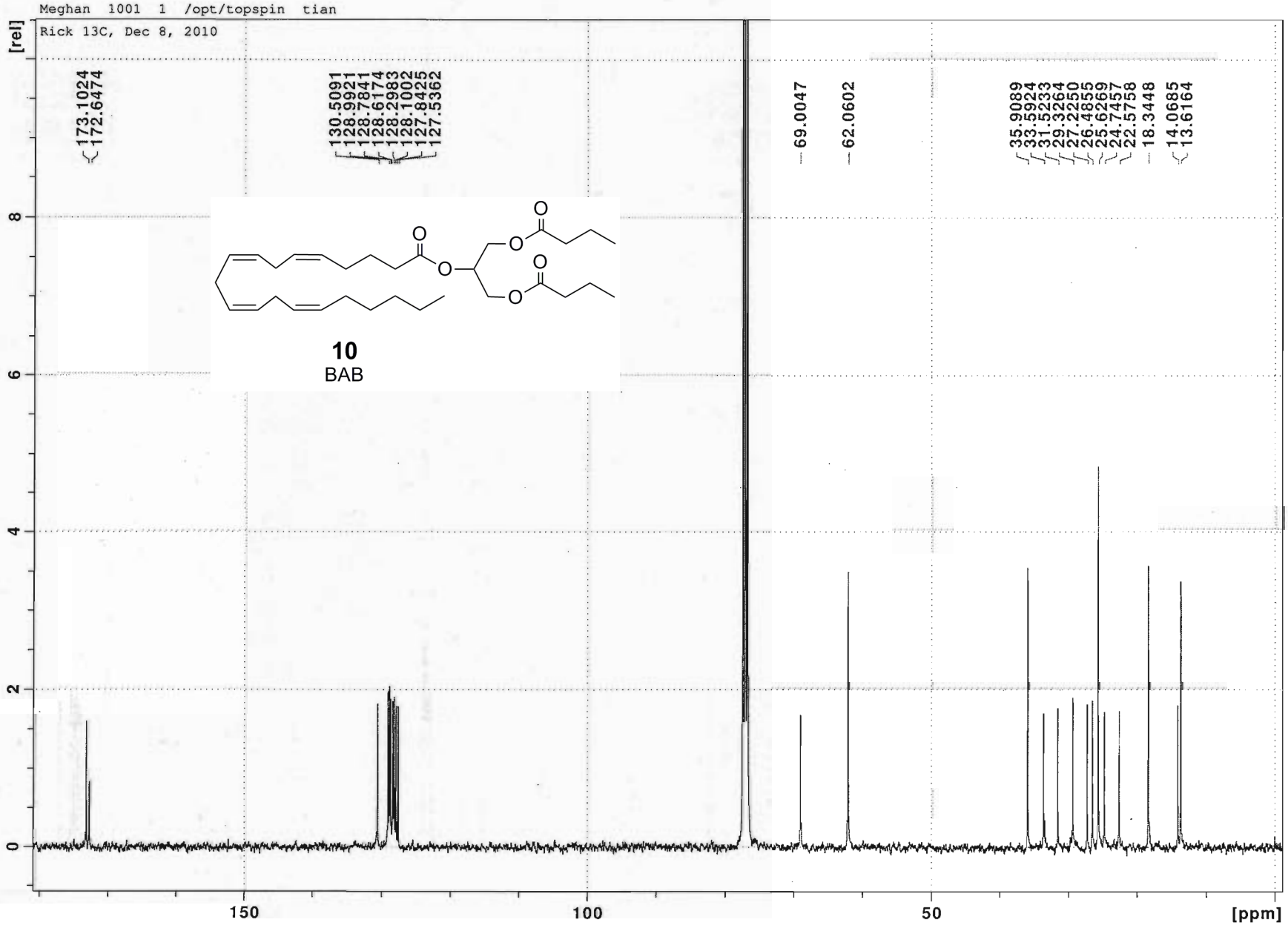
Pulse Sequence: s2pul
Solvent: CDCl3
Ambient temperature
File: MJ0668good
INOVA-500 "waters500"

Pulse 42.2 degrees
Acq. time 2.048 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7029680 MHz
DATA PROCESSING
FT size 32768
Total time 0 min, 32 sec



10
BAB

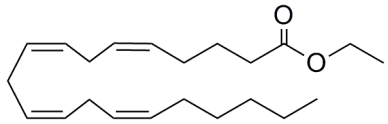
S3


Meghan 1001 1 /opt/topspin tian
Rick 13C, Dec 8, 2010
[rel]
173.1024
172.6474
130.5091
128.9921
128.7841
128.6174
128.2983
128.1002
127.8425
127.5362
69.0047
62.0602
35.9089
33.5924
31.5233
29.3264
27.2250
26.4855
25.6269
24.7457
22.5758
18.3448
14.0685
13.6164
10
BAB
[ppm]

MJ0660 top spot
chloroform

Pulse Sequence: s2pul
Solvent: CDCl3
Ambient temperature
File: MJ0660topspot
INOVA-500 "waters500"

Pulse 42.2 degrees
Acq. time 2.048 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7029690 MHz
DATA PROCESSING
FT size 32768
Total time 0 min, 32 sec



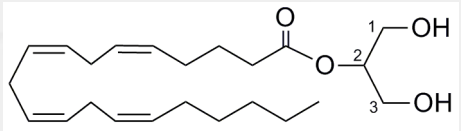
12
ethyl arachidonate

MJ0684
fraction 4

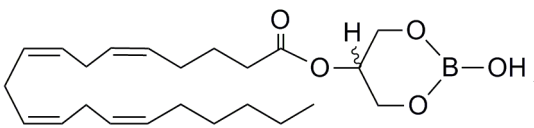
chloroform

Pulse Sequence: s2pul
Solvent: CDCl3
Ambient temperature
File: MJ0684fraction4
INOVA-500 "waters500"

Pulse 42.2 degrees
Acq. time 2.048 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7029724 MHz
DATA PROCESSING
Line broadening 1.0 Hz
FT size 32768
Total time 0 min, 32 sec



1
2-AG



4

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128.9568
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128.5146
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77.2010
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33.8554
31.7493
29.5522
27.4477
26.6974
25.8684
25.8570
25.8288
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22.8032
14.3012
O
H
O
O
O
B—OH
O
150
100
50
[ppm]
1.2 [re
1.0
0.8
0.6
0.4
0.2
– 0.0

4