Supporting Information

Oxidative bicyclization of N-tethered 1,7-enynes toward polycyclic 3,4-dihydroquinolin-2(1H)-ones via site-selective decarboxylative C(sp³)-H functionalization

Jie Li, a Wen-Juan Hao,*,a Peng Zhou,a Yi-Long Zhu,a,b Shu-Liang Wang,a Shu-Jiang Tu,a and Bo Jiang*,a

aSchool of Chemistry and Chemical Engineering, Jiangsu Key Laboratory of Green Synthetic Chemistry for Functional Materials, Jiangsu Normal University, Xuzhou 221116, P. R. China. Email: wjhao@jsnu.edu.cn (WJH); jiangchem@jsnu.edu.cn (BJ); Fax: +8651683500065; Tel: +8651683500065
bBiotechnology and Pharmaceutical Engineering, Nanjing Tech University, Nanjing, 210009, Jiangsu, P. R. China

Context

Copy of TEMPO-2,3-dihydrobenzo[b][1,4]dioxine Adduct detected by LCMS…………… S1
Copies of 1H and 13C NMR Spectra for Compounds 3a-3bb........................................ S2-S29
Copies of 1H and 13C NMR Spectra for Compounds 5a-5m........................................ S30-S42
Overlay of Samples and Spectra from Integration View

Sample "HVNIQNM1_local\Sample\SJ201606132 #61 20160613SJ" contains neither 3DFIELD nor spectra library.
Copies of $^1$H NMR and $^{13}$C NMR of compounds 3 and 5

$^1$H NMR Spectrum of Compound 3a

$^{13}$C NMR Spectrum of Compound 3a
$\text{1H NMR Spectrum of Compound 3c}$

$\text{13C NMR Spectrum of Compound 3c}$
$^1$H NMR Spectrum of Compound 3d

$^{13}$C NMR Spectrum of Compound 3d
$\text{$^{1}H$ NMR Spectrum of Compound 3f$}$

$\text{$^{13}C$ NMR Spectrum of Compound 3f$}$
$^{1}$H NMR Spectrum of Compound 3g

$^{13}$C NMR Spectrum of Compound 3g
$^{1}H$ NMR Spectrum of Compound 3i

$^{13}C$ NMR Spectrum of Compound 3i
$^1$H NMR Spectrum of Compound 3k

$^{13}$C NMR Spectrum of Compound 3k
S13

1H NMR Spectrum of Compound 3l

13C NMR Spectrum of Compound 3l
$^1$H NMR Spectrum of Compound 3m

$^{13}$C NMR Spectrum of Compound 3m
$^1$H NMR Spectrum of Compound 3n

$^{13}$C NMR Spectrum of Compound 3n
$^1$H NMR Spectrum of Compound 3\text{o}

$^13$C NMR Spectrum of Compound 3\text{o}
$^1$H NMR Spectrum of Compound 3r

$^{13}$C NMR Spectrum of Compound 3r
$^{1}H$ NMR Spectrum of Compound 3s

$^{13}C$ NMR Spectrum of Compound 3s
$^{1}$H NMR Spectrum of Compound 3u

$^{13}$C NMR Spectrum of Compound 3u
$^1$H NMR Spectrum of Compound 3v

$^{13}$C NMR Spectrum of Compound 3v
\(^1\)H NMR Spectrum of Compound 3y

\(^{13}\)C NMR Spectrum of Compound 3y
$^1$H NMR Spectrum of Compound 3z

$^{13}$C NMR Spectrum of Compound 3z
$^1$H NMR Spectrum of Compound 3aa

$^{13}$C NMR Spectrum of Compound 3aa

S28
$^{1}H$ NMR Spectrum of Compound 3bb

$^{13}C$ NMR Spectrum of Compound 3bb
$^1$H NMR Spectrum of Compound 5b

$^{13}$C NMR Spectrum of Compound 5b
1H NMR Spectrum of Compound 5c

13C NMR Spectrum of Compound 5c
$^1$H NMR Spectrum of Compound 5d

$^{13}$C NMR Spectrum of Compound 5d
$^1$H NMR Spectrum of Compound 5e

$^{13}$C NMR Spectrum of Compound 5e

S34
$^1$H NMR Spectrum of Compound 5f

$^{13}$C NMR Spectrum of Compound 5f
1H NMR Spectrum of Compound 5g

13C NMR Spectrum of Compound 5g
$^1$H NMR Spectrum of Compound 5j

$^{13}$C NMR Spectrum of Compound 5j
$^1$H NMR Spectrum of Compound 5k

$^{13}$C NMR Spectrum of Compound 5k
1H NMR Spectrum of Compound 5l

13C NMR Spectrum of Compound 5l