Supplementary data

Heat Shock Protein-Inducing Property of Diarylheptanoid-Containing Chalcone Moiety from *Alpinia katsumadai*

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Figure S1. ^{1}H NMR (400 MHz, acetone-d_6) of katsumain H (**1**)

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EA299E-V-3-3-2

exp2  std1h

      SAMPLE                DEC. & VT
date    Oct 28 2010  dfrq        400.047
solvent    Acetone   dn               H1
file           exp   dpwr             30
   ACQUISITION       dof               0
sfrq        400.048  dm              nnn
tn               H1  dmm               c
at            3.756  dmf             200
np            54088  dseq
sw           7200.7  dres            1.0
fb         not used  homo              n
bs                4  temp           25.0
tpwr             55       PROCESSING
pw              8.0  wtfile
d1            1.000  proc             ft
tof          1199.8  fn         not used
nt               16  math              f
ct               16
alock             n  werr
gain       not used  wexp
      FLAGS          wbs
il                n  wnt
in                n
dp                y
hs               nn
     DISPLAY
sp           -396.9
wp           7200.5
vs               27
sc                0
wc              250
hzmm           6.59
is            51.14
rfl           397.1
rfp               0
th               11
ins           1.000
nm    ph
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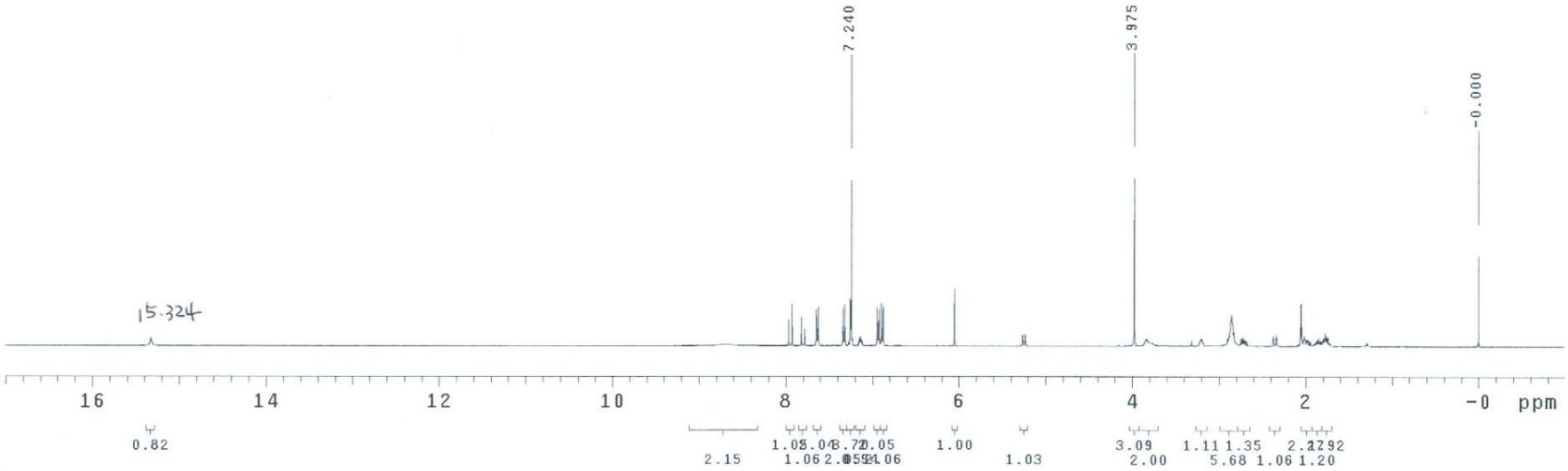


Figure S2. ^{13}C NMR (100 MHz, acetone-d_6) of katsumain H (**1**)

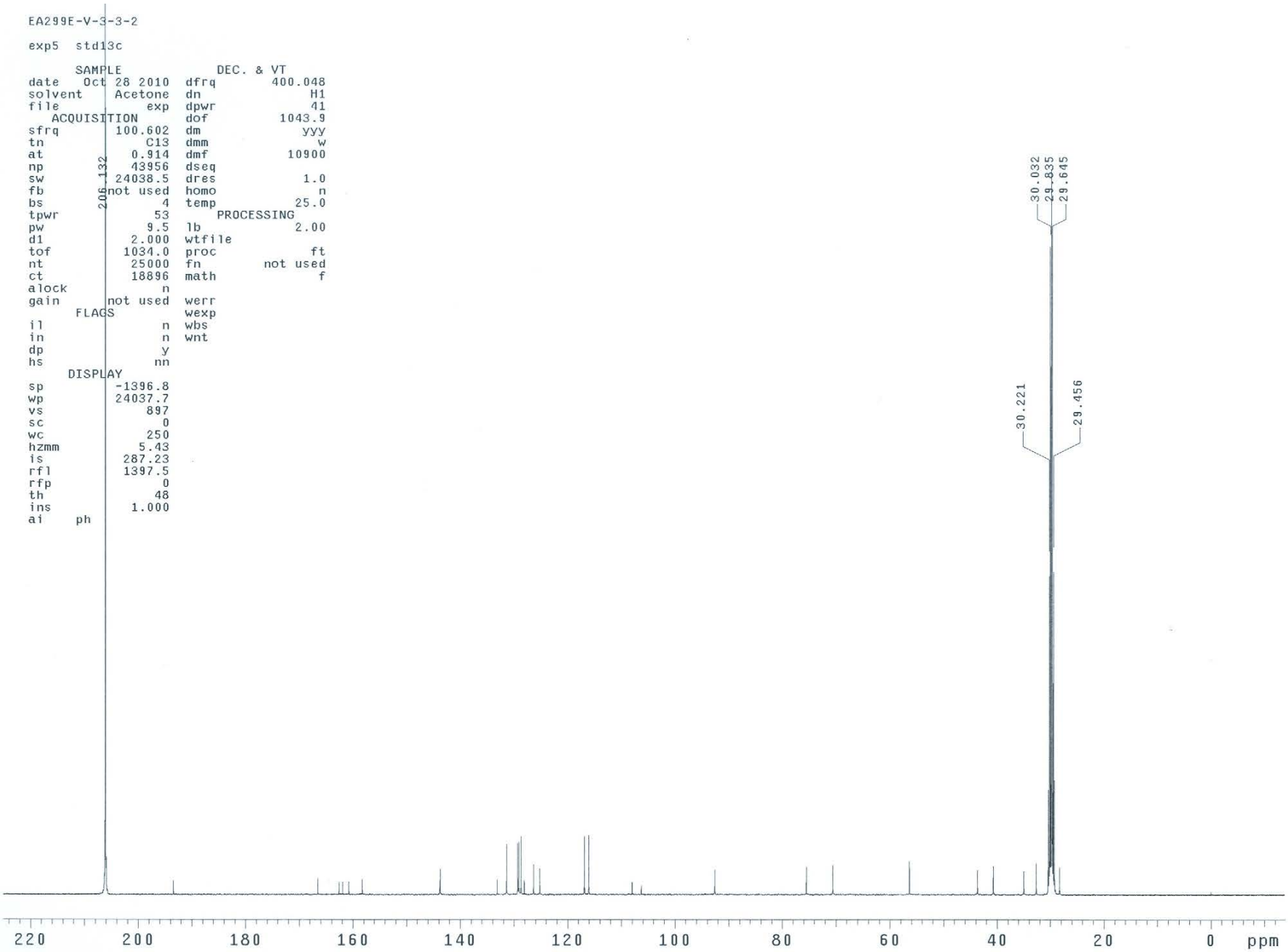


Figure S3. ^{1}H-^{1}H COSY NMR (acetone-d_6) of katsumain H (**1**)

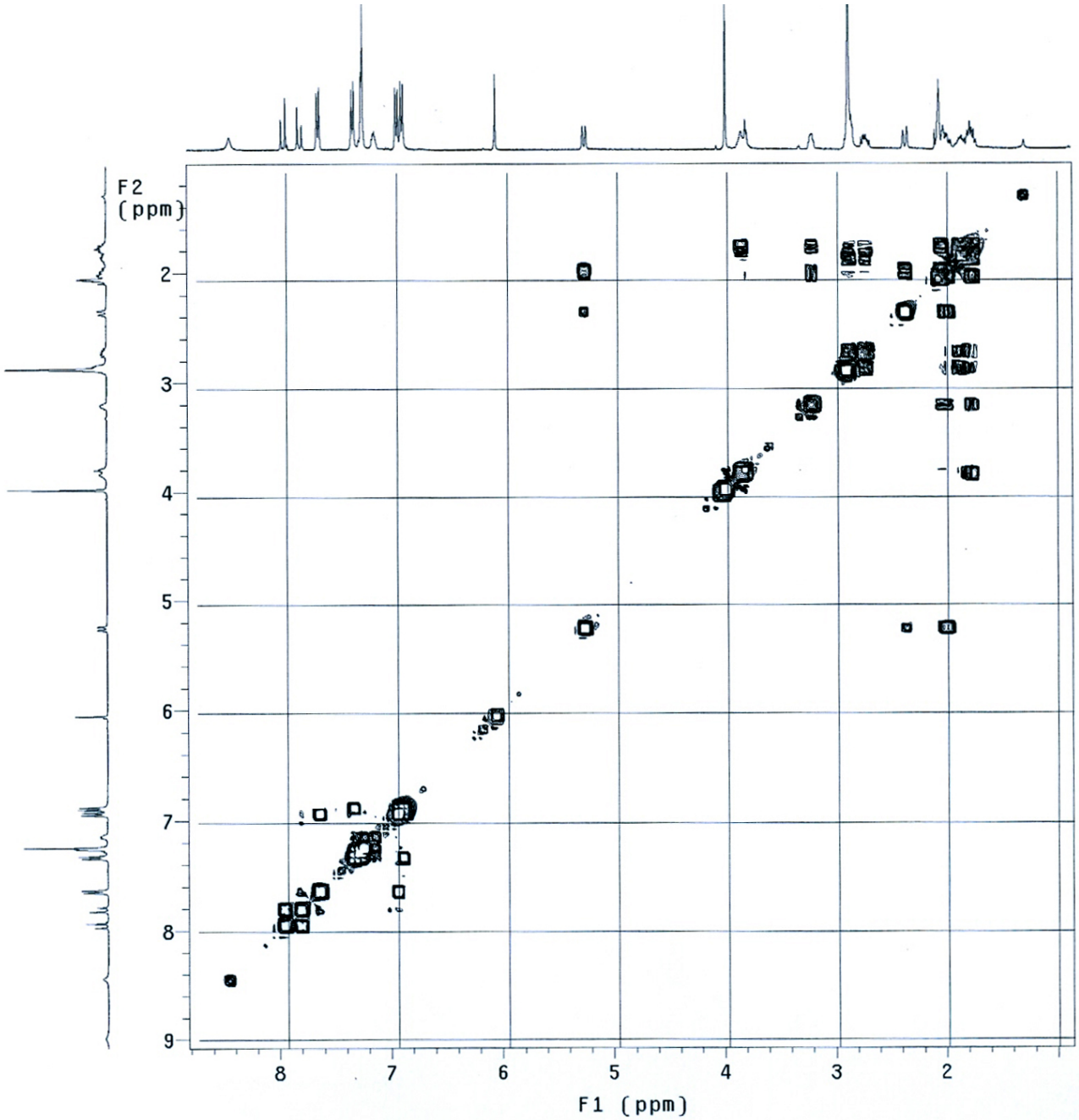


Figure S4. ^{1}H-^{1}H NOESY NMR (acetone-d_6) of katsumain H (**1**)

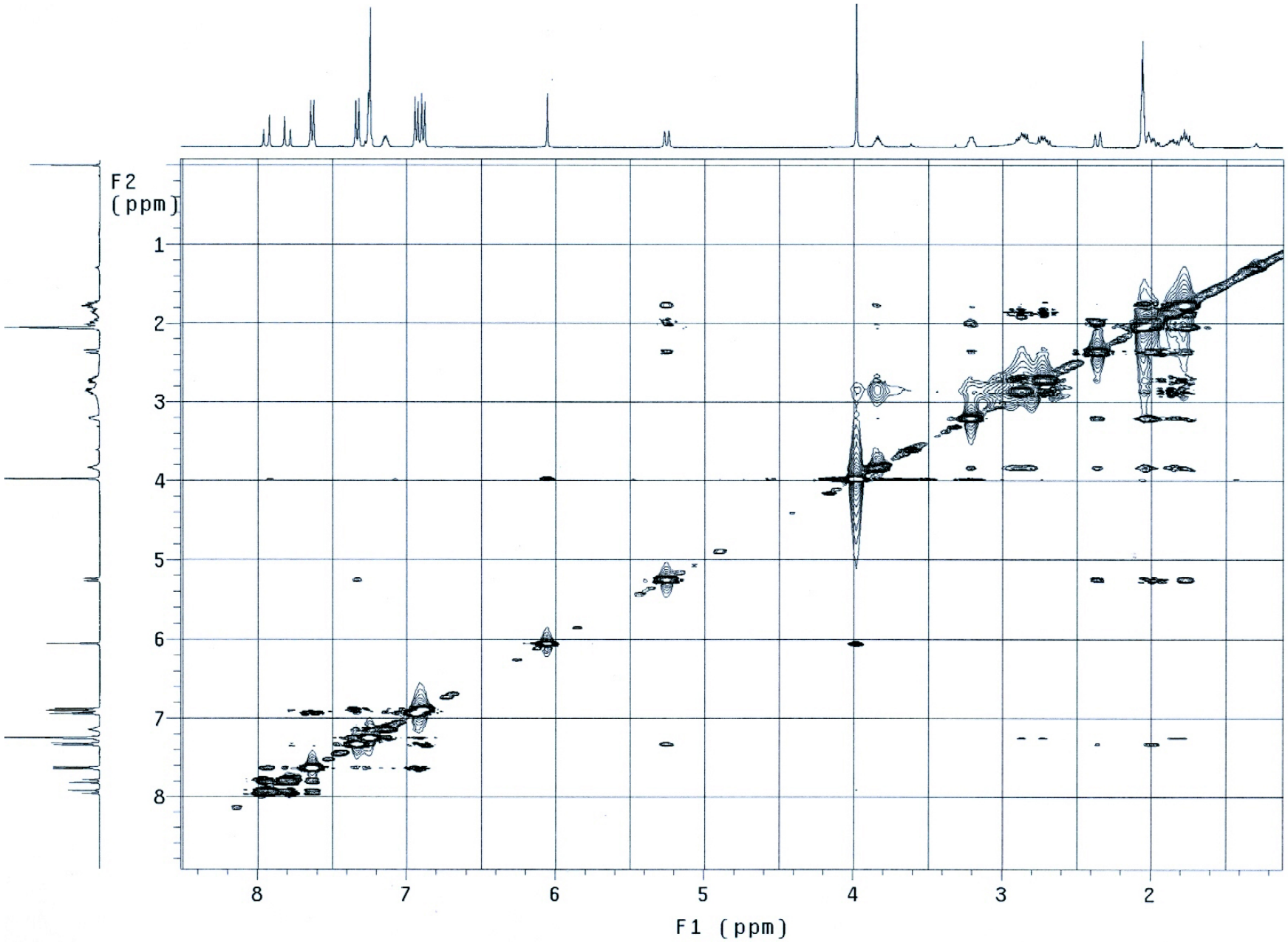


Figure S5. ^{1}H-^{13}C HSQC NMR (acetone-d_6) of katsumain H (**1**)

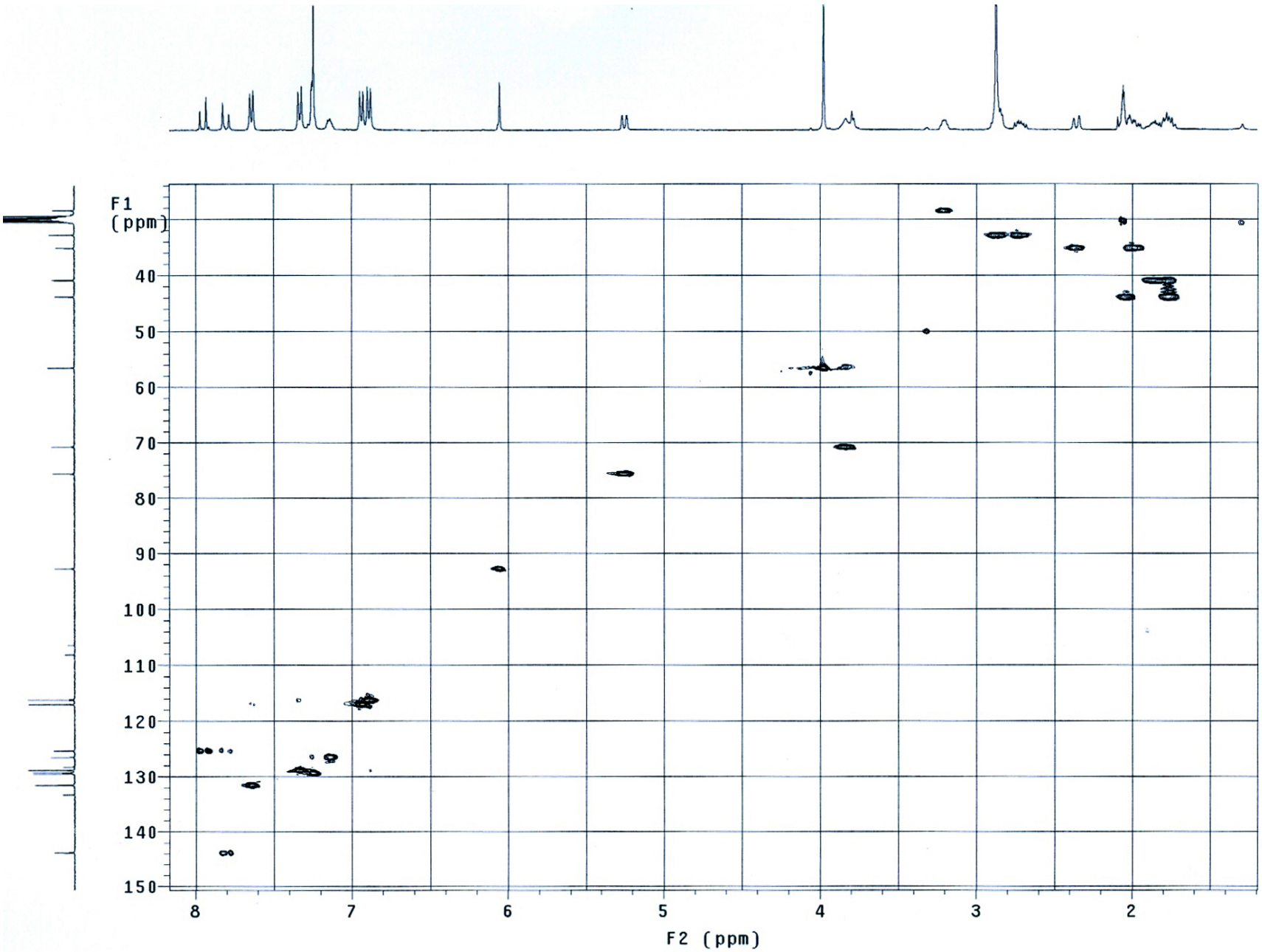


Figure S6. ^{1}H-^{13}C HMBC NMR (acetone-d_6) of katsumain H (**1**)

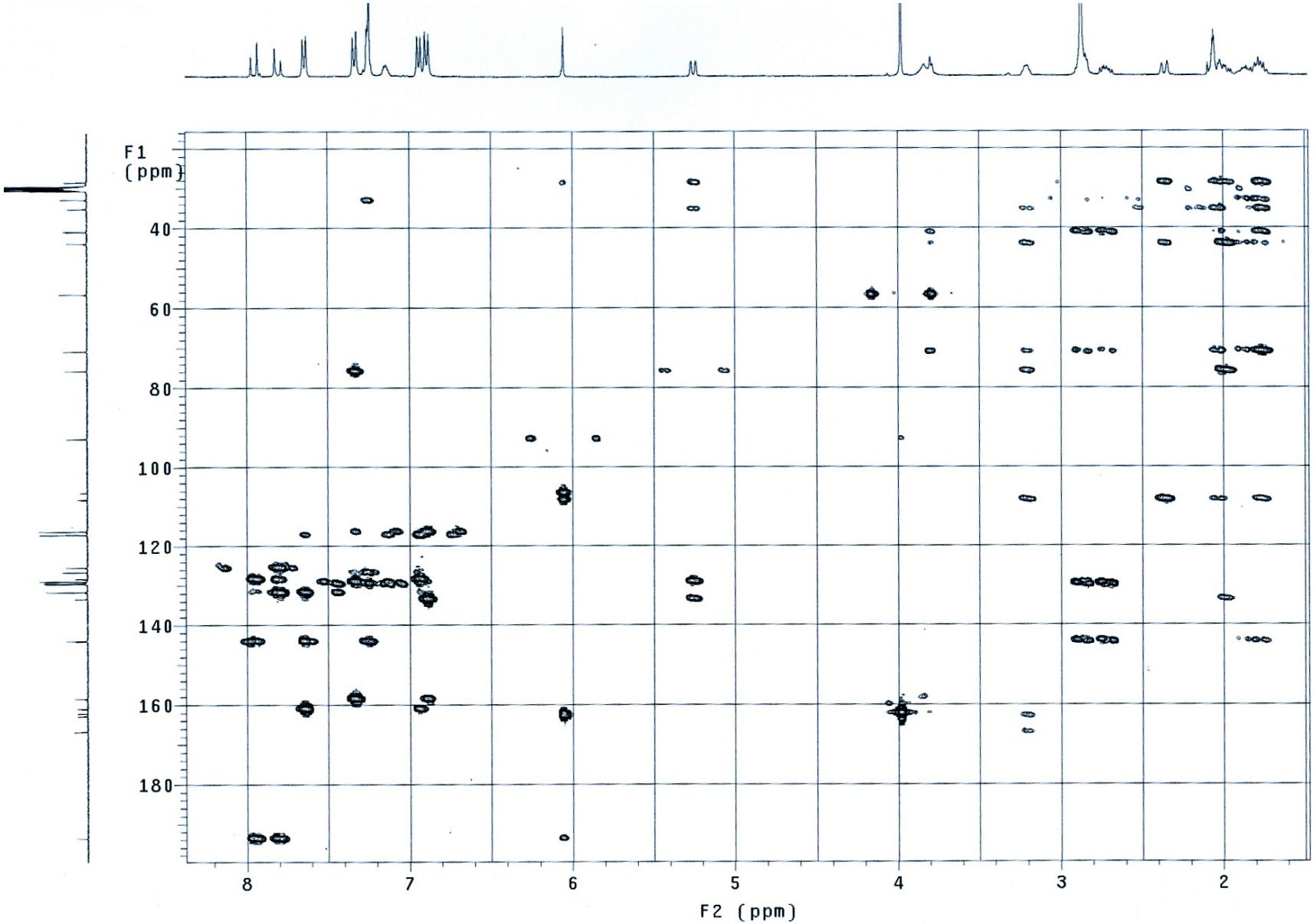


Figure S7. Graphical representation of the chemical shift differences (A: $\Delta\delta_H$ [ppm]; B: $\Delta\delta c$ [ppm]) between the model compounds, katsumain E and katsumain F (acetone-d_6, 600 MHz and 150 MHz for ^{1}H and ^{13}C, respectively) [14].

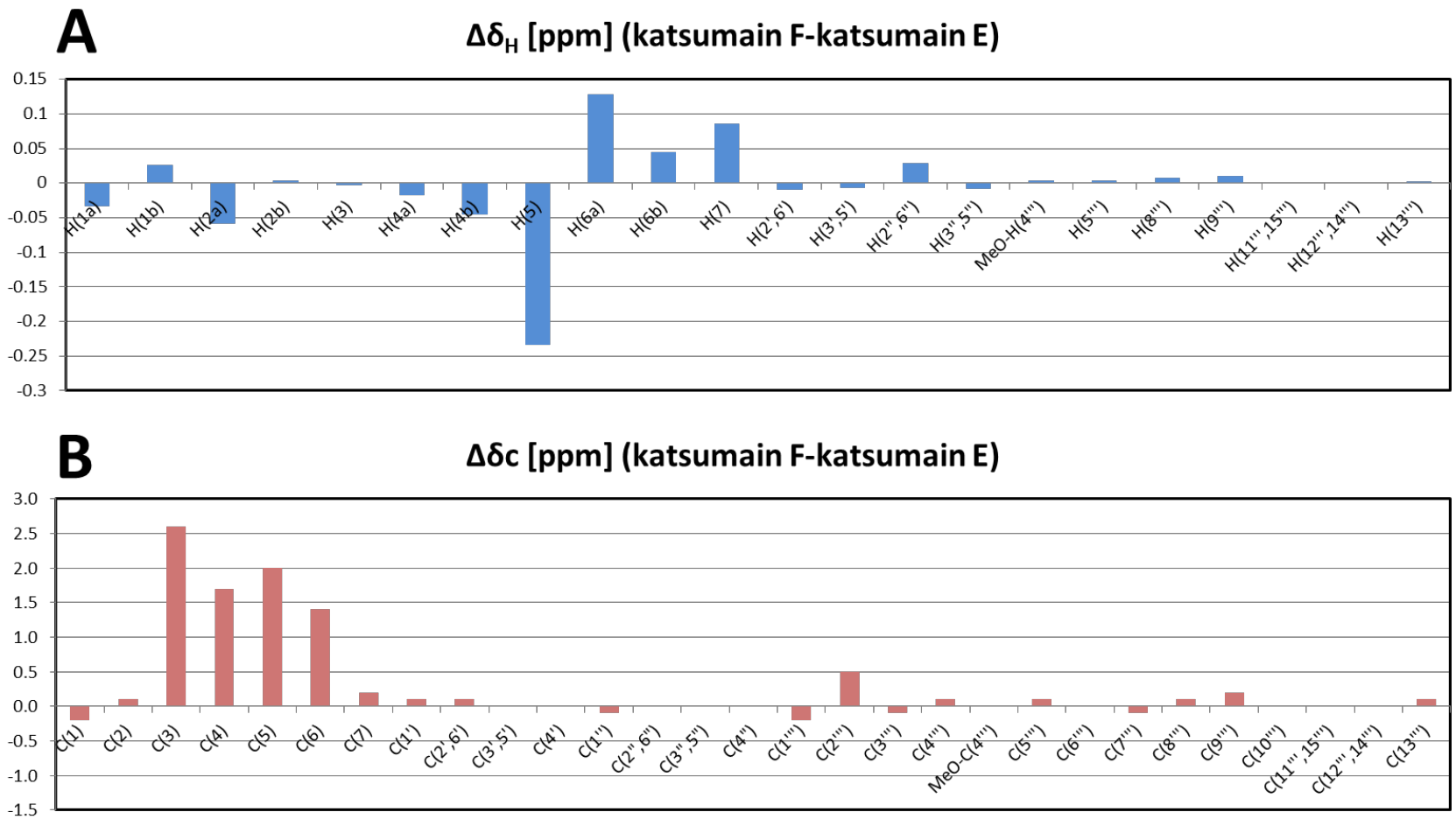
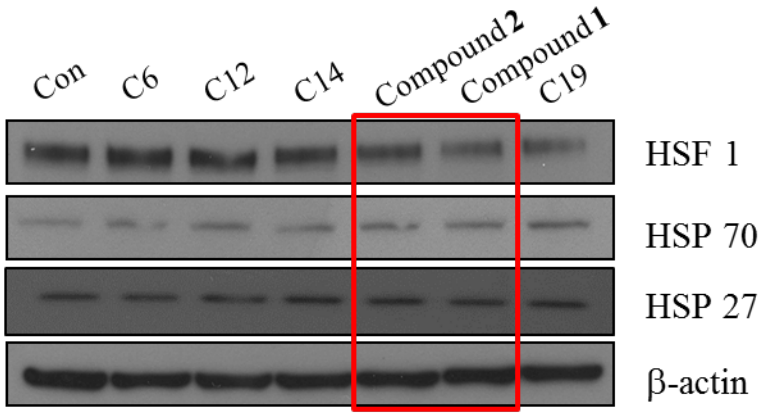


Figure S8. Western blot analysis



Western blot analysis was performed 24 hours after sample treatment. The results for C6, C12, C14, and C19 are not mentioned in this paper.