

Supplemental Material: Tugarinov *et al.*

Figure S1. ^1H - ^{13}C pulse scheme to record ^1H -coupled double quantum correlation maps

of methyl groups. Details of the sequence not described here can be found in the legend to Figure 1. The phase cycling employed is: $\phi_1 = (-y, -x, y, x)$; $\phi_2 = 2(x, y), 2(-x, -y)$; $\phi_3 = 8(x), 8(-x)$; $\text{rec} = (x, -x, -x, x), 2(-x, x, x, -x), (x, -x, -x, x)$. Quadrature detection in F_1 is achieved using an enhanced sensitivity method in which two separate spectra are recorded for each t_1 point (with and without the ^1H composite 180° pulse shown with dashed lines) and subsequently manipulated in a manner analogous to what is done during the processing of data sets which use gradients for coherence transfer selection¹.

1. Kay, L.E.; Keifer, P.; Saarinen, T. *J. Am. Chem. Soc.* **1992**, 114, 10663-10665.

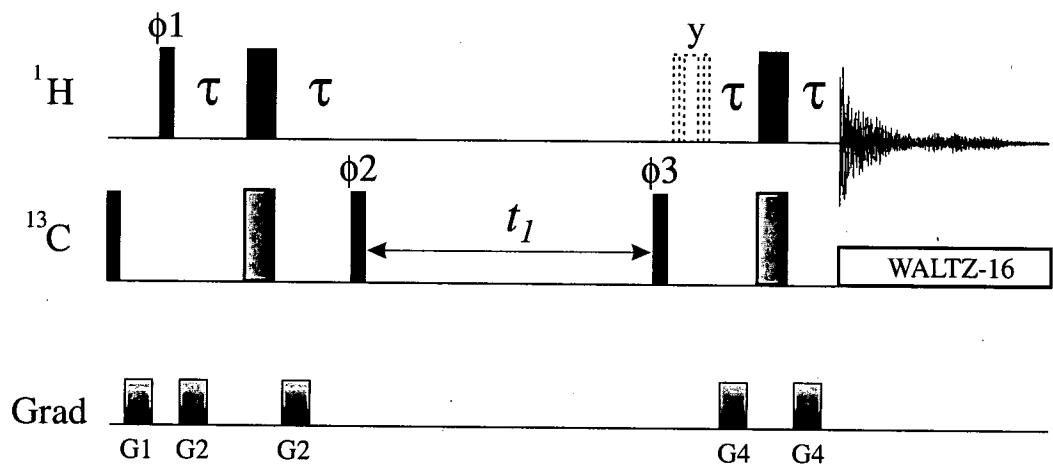


Figure S1