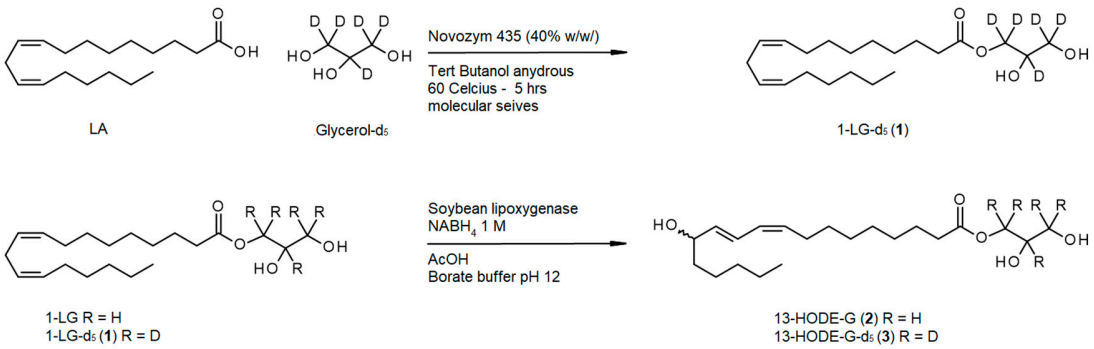

Figure S1. Strategy to synthesize 1-LG-d$_5$, 13-HODE-G and 13-HODE-G-d$_5$. LA and glycerol-d$_5$ were incubated with Novozym 435 to yield 1-LG-d$_5$. 1-LG or 1-LG-d$_5$ were then oxygenated by soybean lipoxygenase to yield 13-HODE-G and 13-HODE-G-d$_5$ respectively.

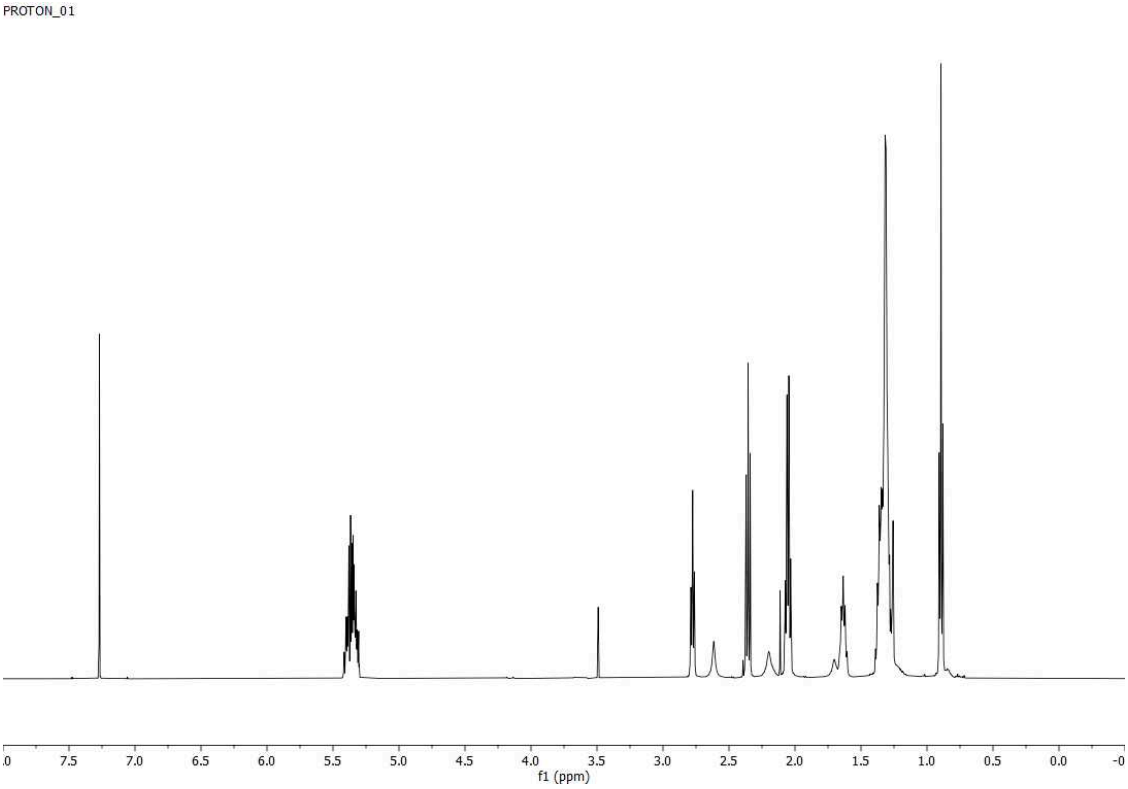

Figure S2. ^{1}H-NMR in $CDCl_3$ of 1-LG-d_5 (1).

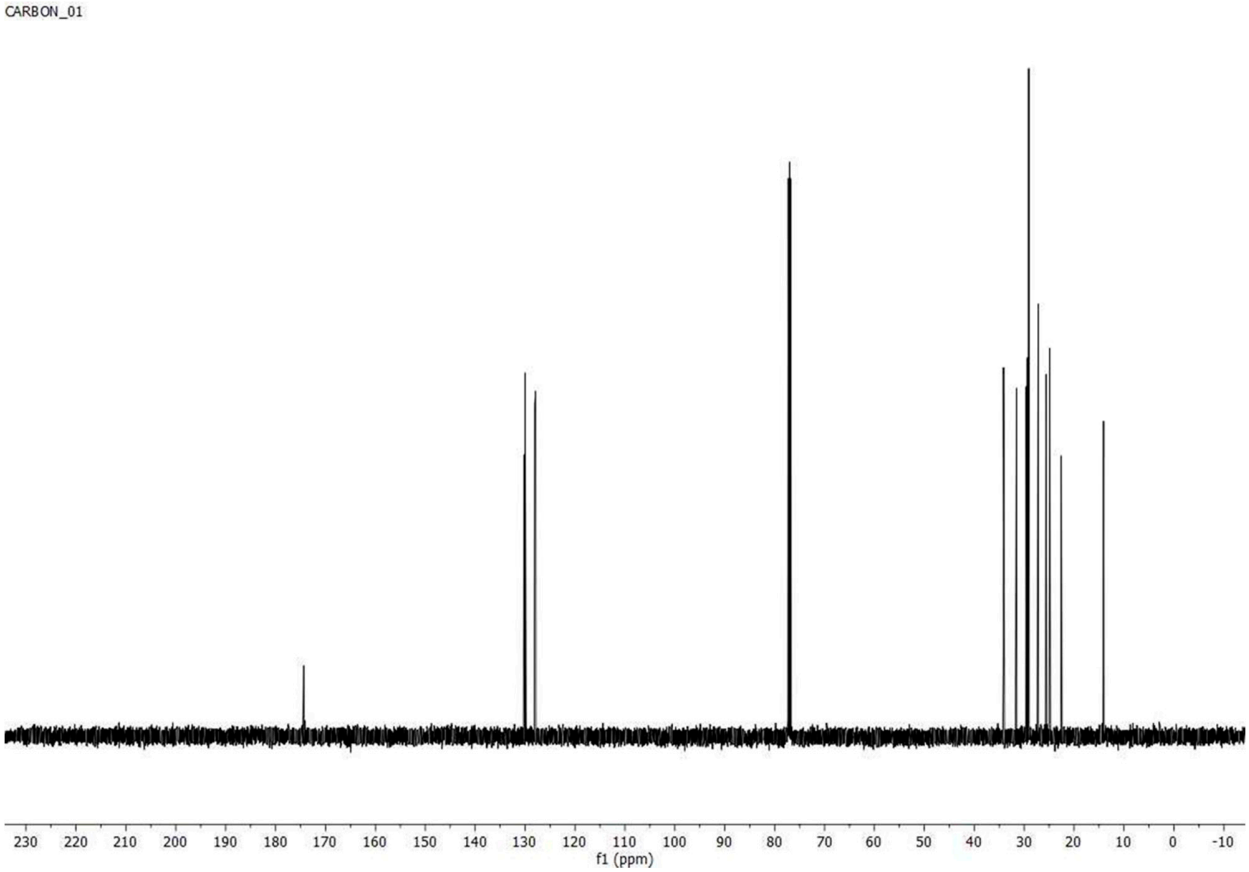

Figure S3. ^{13}C-NMR in $CDCl_3$ of 1-LG-d_5 (1).

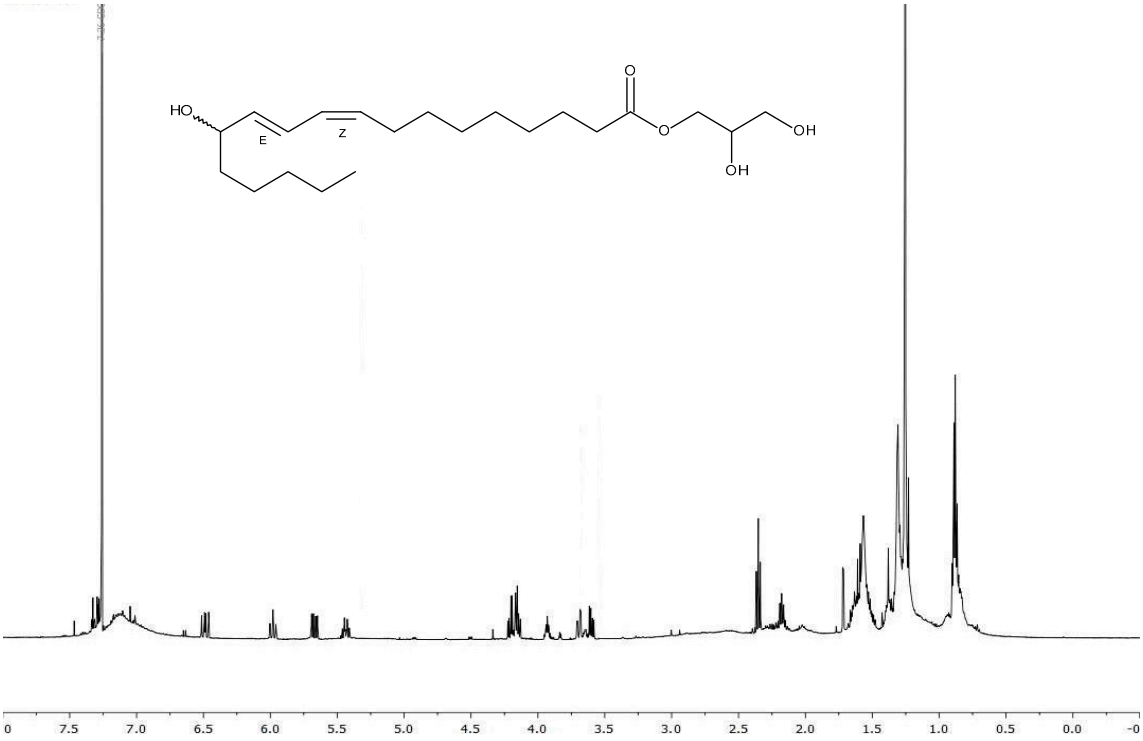

Figure S4. ^{1}H-NMR in $CDCl_3$ of 13-HODE-G (2).

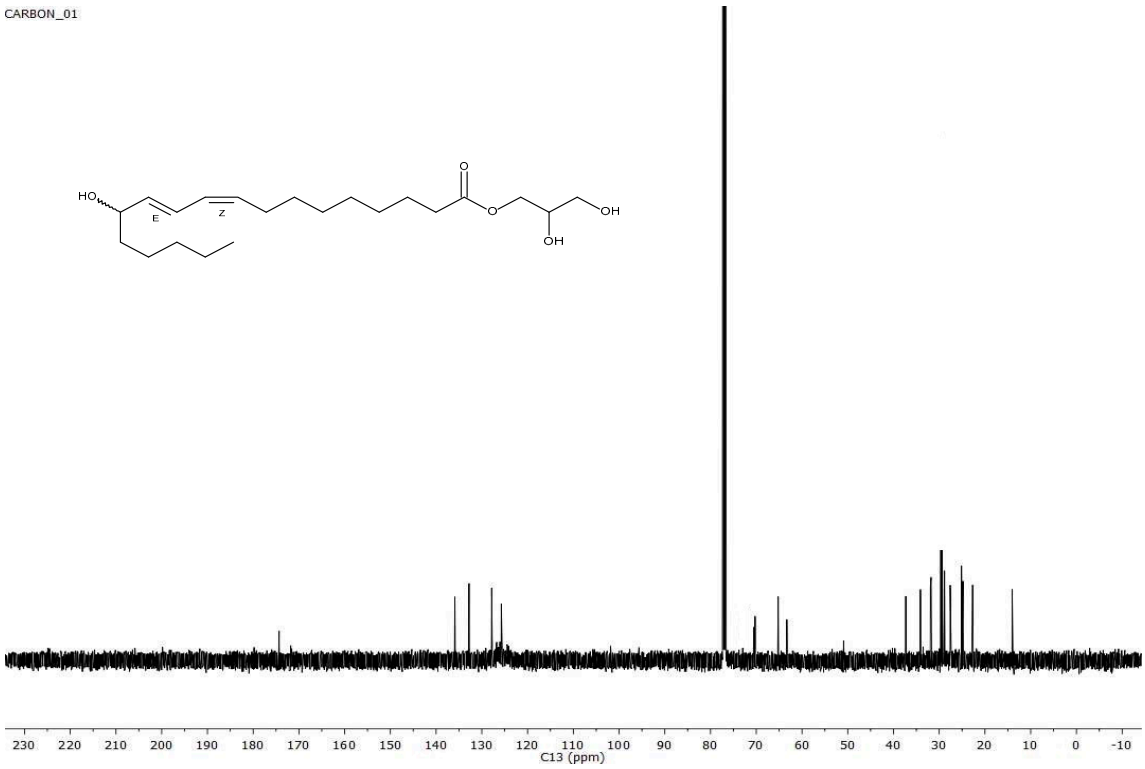

Figure S5. ^{13}C-NMR in $CDCl_3$ of 13-HODE-G (2).

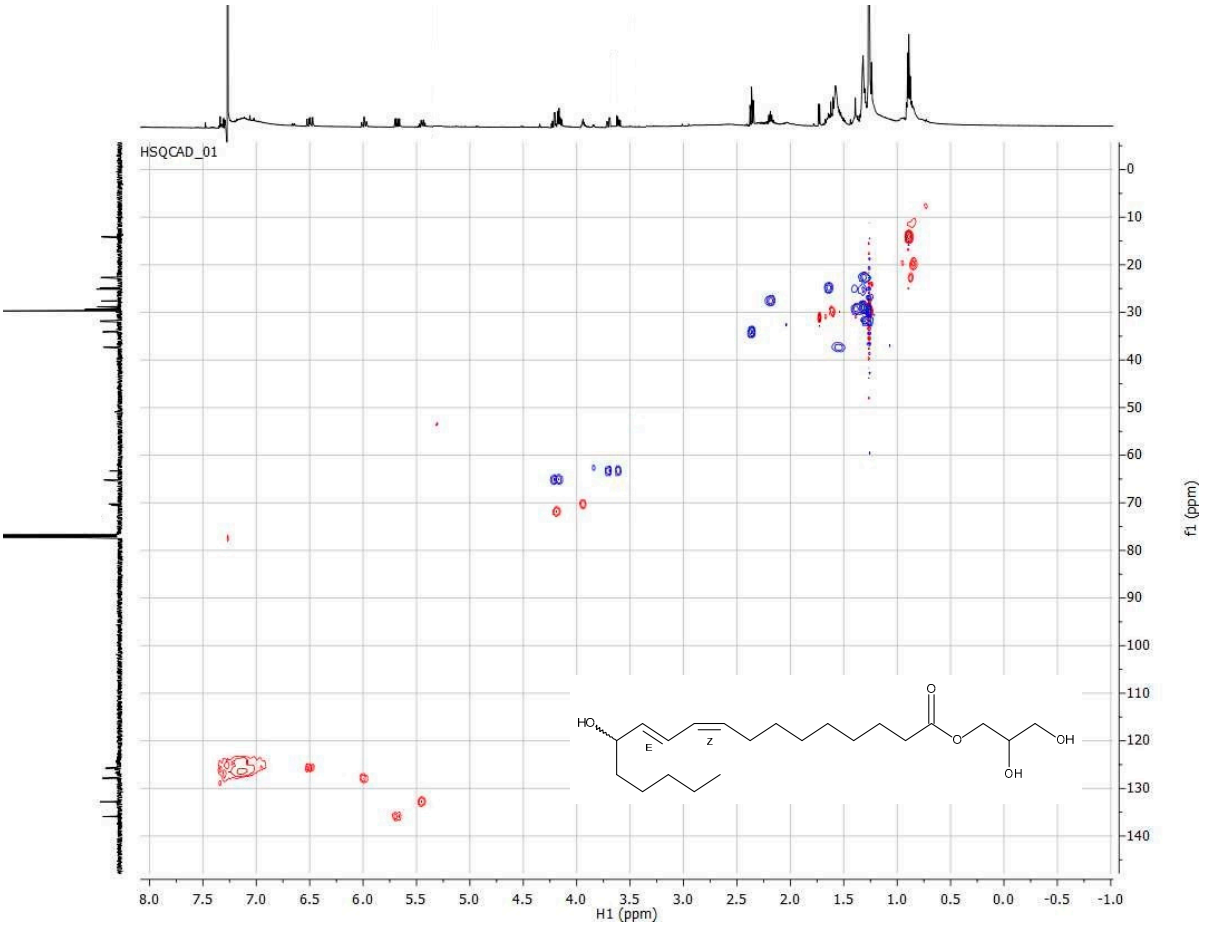

Figure S6. HSQC in CDCl3 of 13-HODE-G (2).

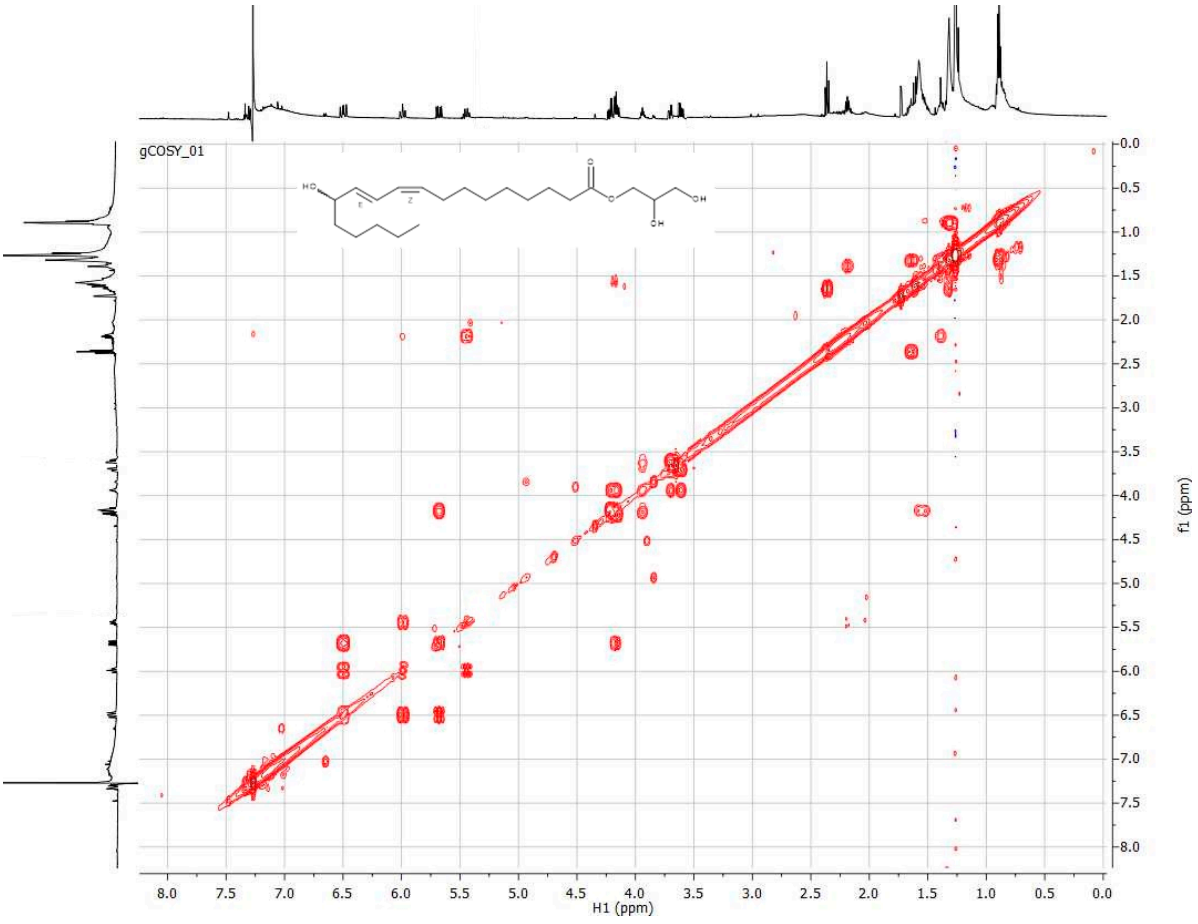

Figure S7. COSY in CDCl3 of 13-HODE-G (2).

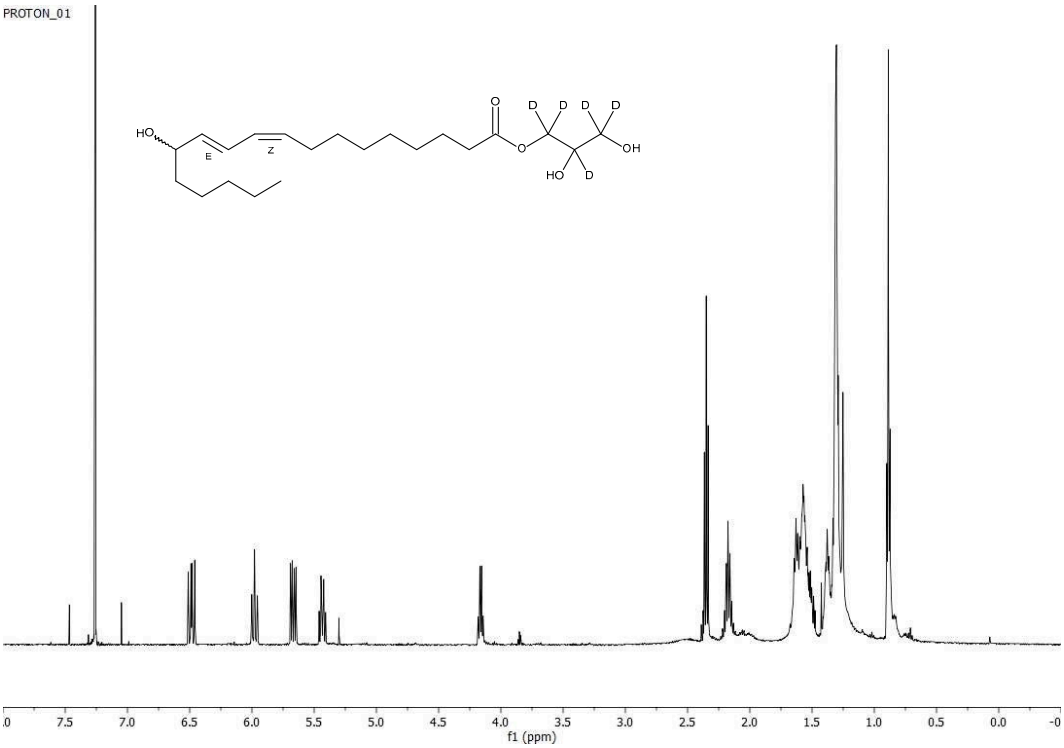

Figure S8. ^{1}H-NMR in $CDCl_3$ of 13-HODE-G-d_5 (3).

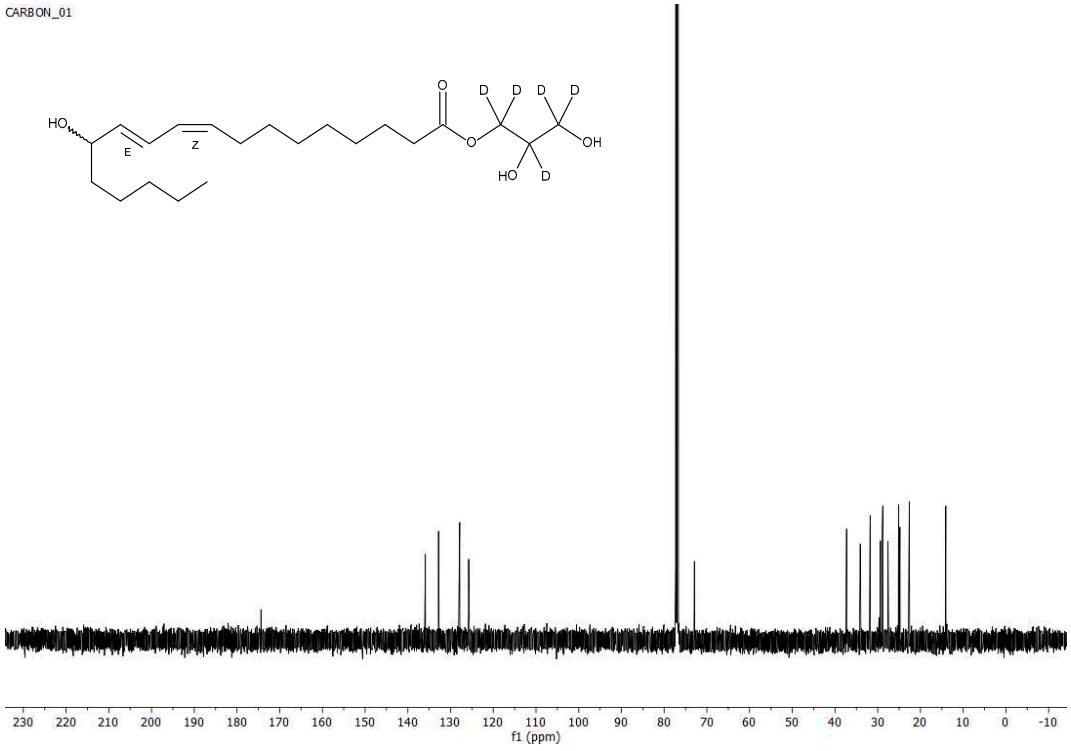

Figure S9. ^{13}C-NMR in CDCl3 of 13-HODE-G-d$_5$ (3).

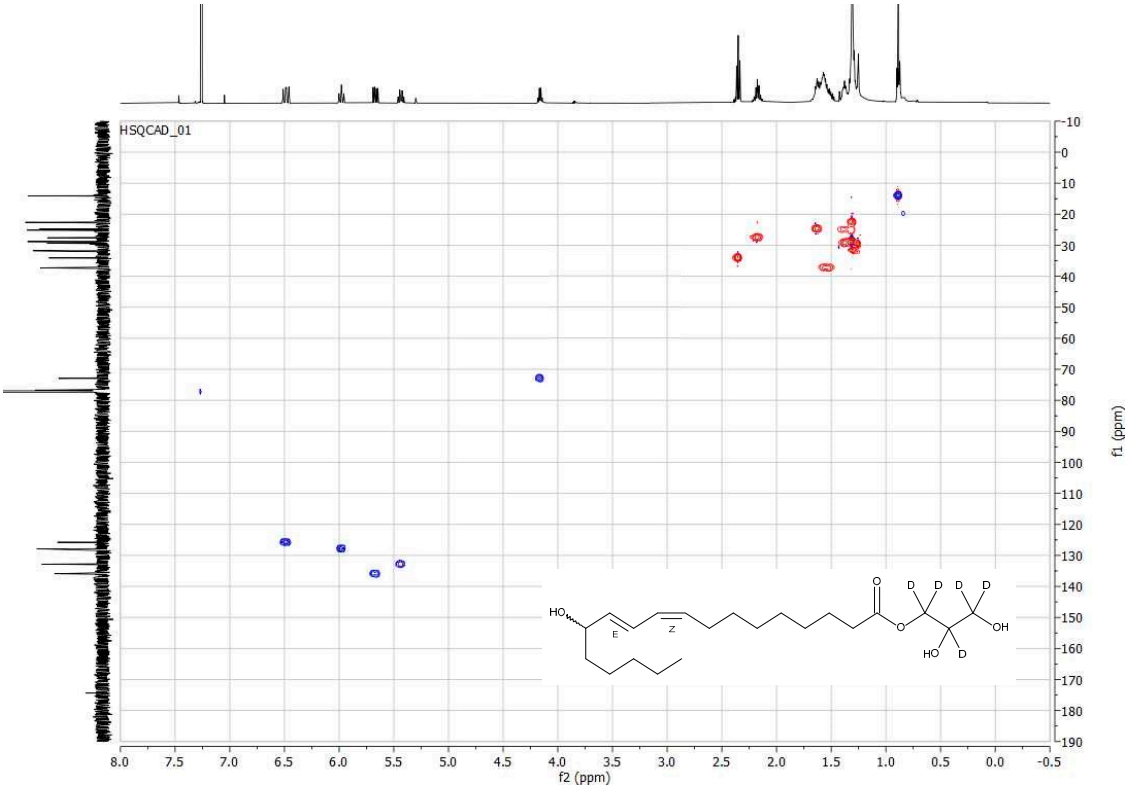

Figure S10. HSQC in $CDCl_3$ of 13-HODE-G-d_5 (3).

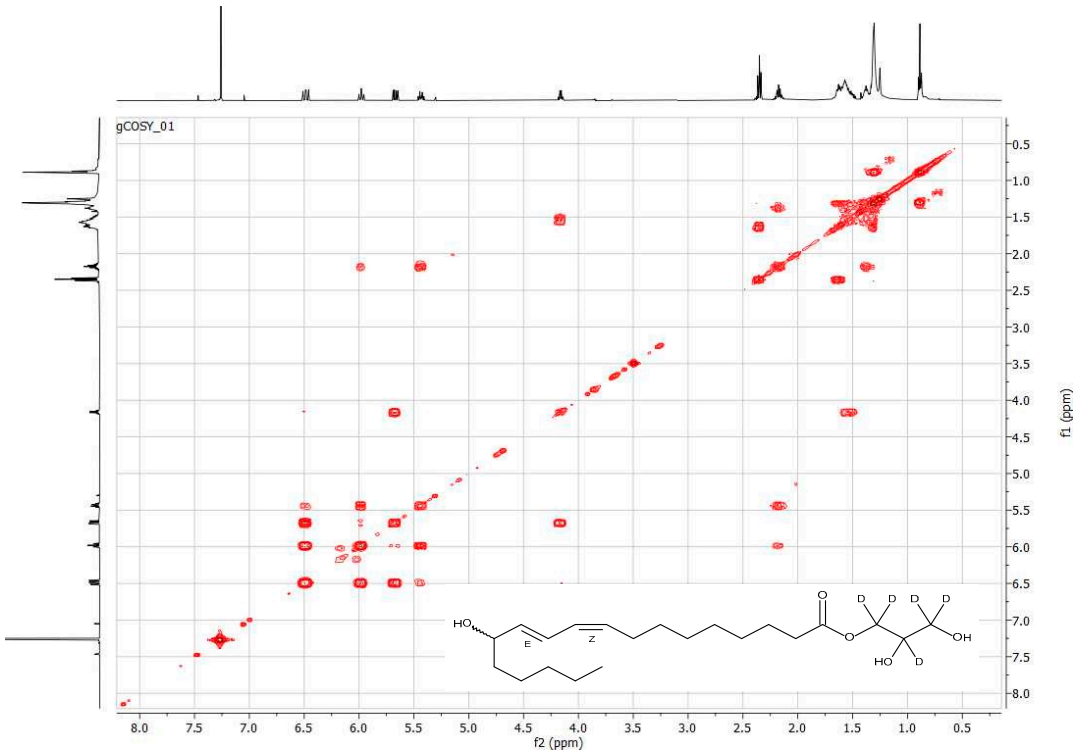

Figure S11. COSY in $CDCl_3$ of 13-HODE-G-d_5.