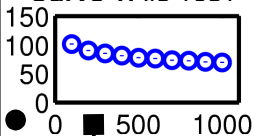


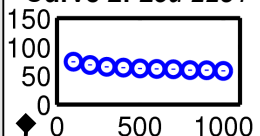
### Dataset 1

$^{13}\text{C}$ , 800MHz, MQ, 25°C,  $T_{\text{CPMG}}=20\text{ms}$

Curve 1: Ile 10δ1



Curve 2: Leu 22δ1

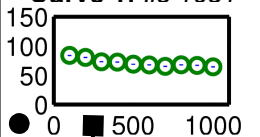


More curves...

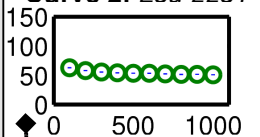
### Dataset 2

$^{13}\text{C}$ , 600MHz, MQ, 25°C,  $T_{\text{CPMG}}=20\text{ms}$

Curve 1: Ile 10δ1



Curve 2: Leu 22δ1

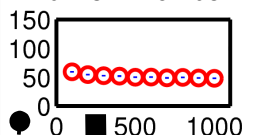


More curves...

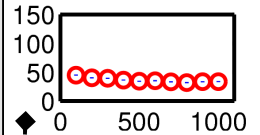
### Dataset 3

$^{13}\text{C}$ , 800MHz, MQ, 37°C,  $T_{\text{CPMG}}=20\text{ms}$

Curve 1: Ile 10δ1



Curve 2: Leu 22δ1



More curves...

More datasets...

### Group 1: Ile 10δ1

$P_A(25^\circ\text{C})$ ,  $k_{\text{ex}}(25^\circ\text{C})$

$P_A(37^\circ\text{C})$ ,  $k_{\text{ex}}(37^\circ\text{C})$

### Curveset 1: Ile 10δ1

$|\Delta\omega_H|(1)$ ,  $|\Delta\omega_C|(1)$

Curve 1

$R_{20}(1)$



Curve 2

$R_{20}(2)$



Curve 3

$R_{20}(3)$



Kinetic parameters are shared among all curves in the group

Structural parameters are shared among all curves in the curveset

Relaxation parameters are not shared

### Group 2: Ile 10δ1 + Leu 22δ1

$P_A(25^\circ\text{C})$ ,  $k_{\text{ex}}(25^\circ\text{C})$

$P_A(37^\circ\text{C})$ ,  $k_{\text{ex}}(37^\circ\text{C})$

### Curveset 1: Ile 10δ1

$|\Delta\omega_H|(1)$ ,  $|\Delta\omega_C|(1)$

Curve 1

$R_{20}(1)$



Curve 2

$R_{20}(2)$



Curve 3

$R_{20}(3)$



### Curveset 2: Leu 22δ1

$|\Delta\omega_H|(2)$ ,  $|\Delta\omega_C|(2)$

Curve 4

$R_{20}(4)$



Curve 5

$R_{20}(5)$



Curve 6

$R_{20}(6)$



More groups...