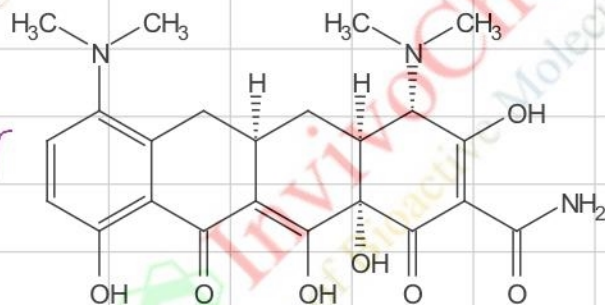


# NMR Analysis for V4385501 Minocycline; Solvent: DMSO



$^1\text{H}$  NMR (400 MHz,  $\text{DMSO}-d_6$ )  $\delta$  14.92 (s, 1H), 9.35 (d,  $J = 5.3$  Hz, 1H), 6.99 (d,  $J = 9.1$  Hz, 2H), 6.49 (d,  $J = 8.7$  Hz, 1H), 6.37–6.15 (m, 1H), 4.11 (s, 1H), 2.99 (d,  $J = 14.2$  Hz, 1H), 2.64 (d,  $J = 19.3$  Hz, 3H), 2.36 (s, 1H), 2.28 (d,  $J = 36.1$  Hz, 6H), 1.97 (t,  $J = 14.5$  Hz, 1H), 1.78 (d,  $J = 12.4$  Hz, 1H), 1.54 (q,  $J = 11.9$  Hz, 1H), 1.24 (s, 1H).

A (s)  
14.92

B (d)  
9.35

C (d)  
6.99

D (d)  
6.49

E (m)  
6.27

F (s)  
4.11

G (d)  
2.99

H (H)  
2.64

I (d)  
2.28

M (s)  
2.36

K (d)  
1.78

J (t)  
1.97

N (s)  
1.24

L (q)  
1.54

Product Name: Minocycline  
InvivoChem Cat #: V43855  
CAS #: 10118-90-8  
Batch #: V4385501  
Formula:  $\text{C}_{23}\text{H}_{27}\text{N}_3\text{O}_7$   
Molecular Weight: 457.48

