

Purification and characterization of a new carotenoid produced by *Arthrobacter antioxidans* QL17 isolated in Mount Qomolangma.

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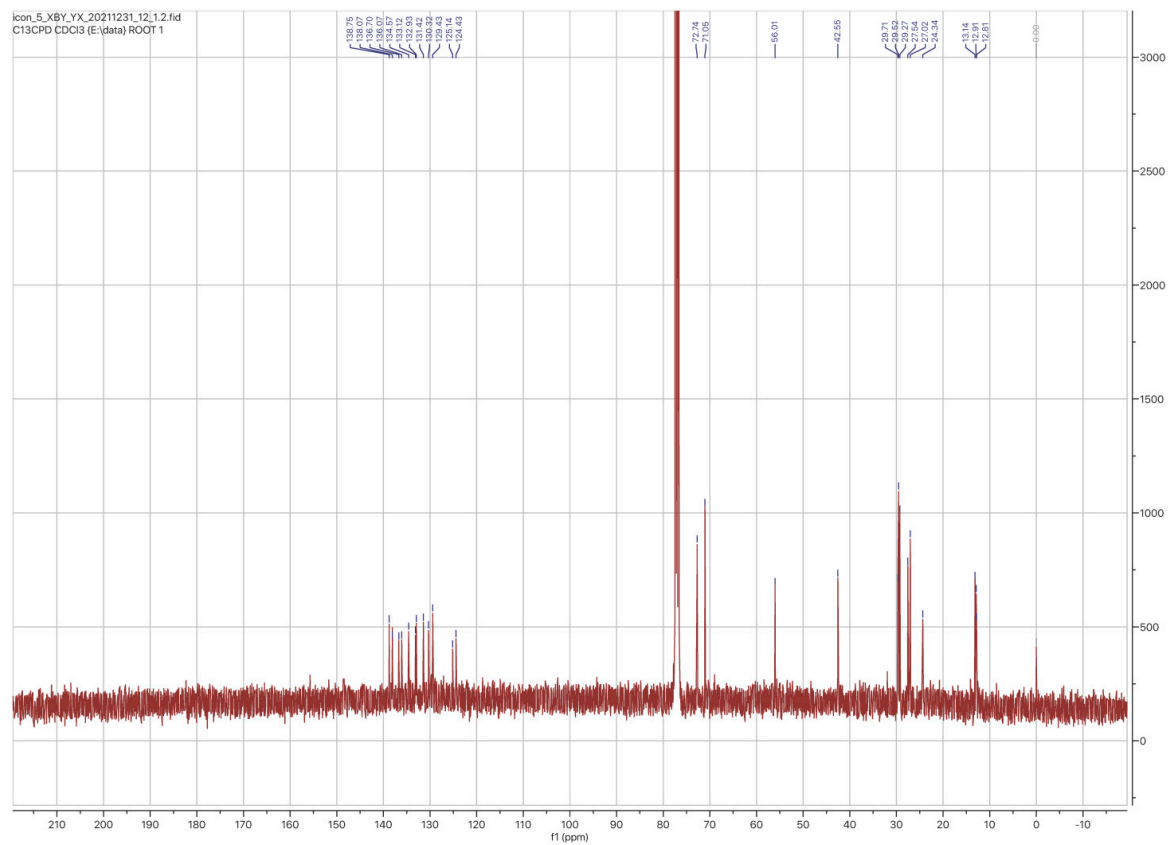


Figure S1.  $^{13}\text{C}$  NMR spectrum of arthroxanthin in  $\text{CDCl}_3$  (100 MHz).

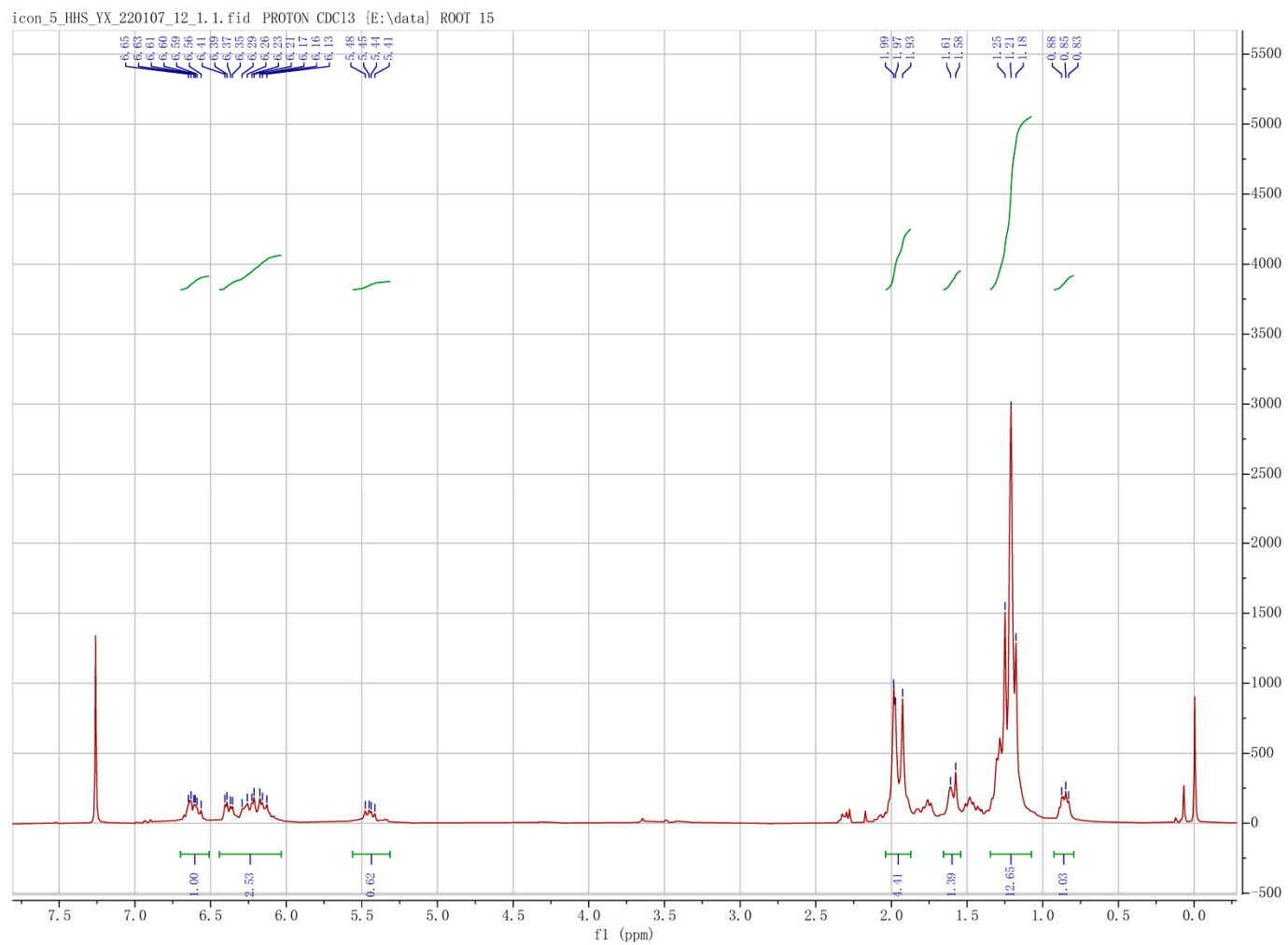


Figure S2.  $^1\text{H}$  NMR spectrum of arthroxanthin in  $\text{CDCl}_3$  (400 MHz).

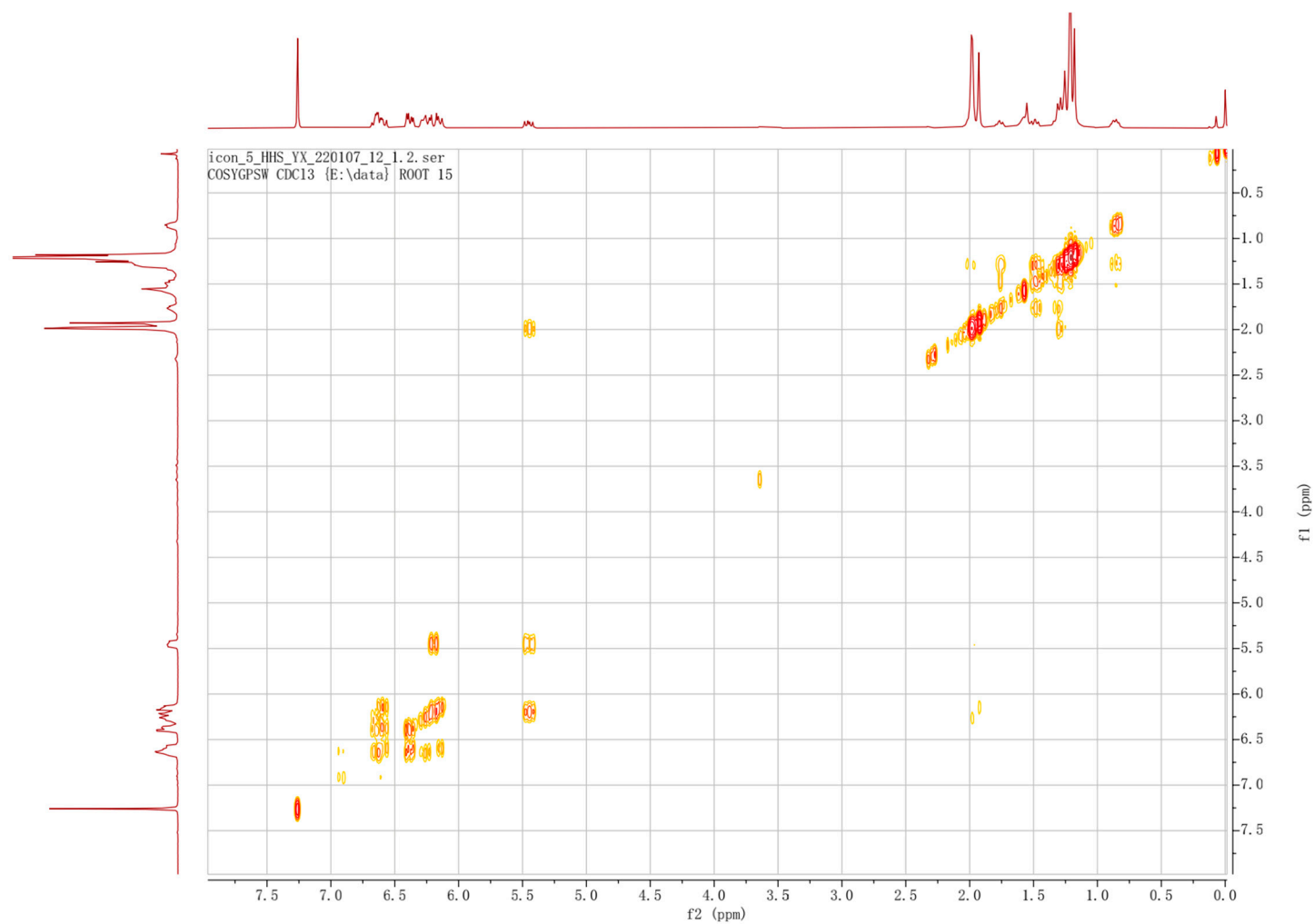


Figure S3.  $^1\text{H}$ - $^1\text{H}$ COSY spectrum of arthroanthin in  $\text{CDCl}_3$



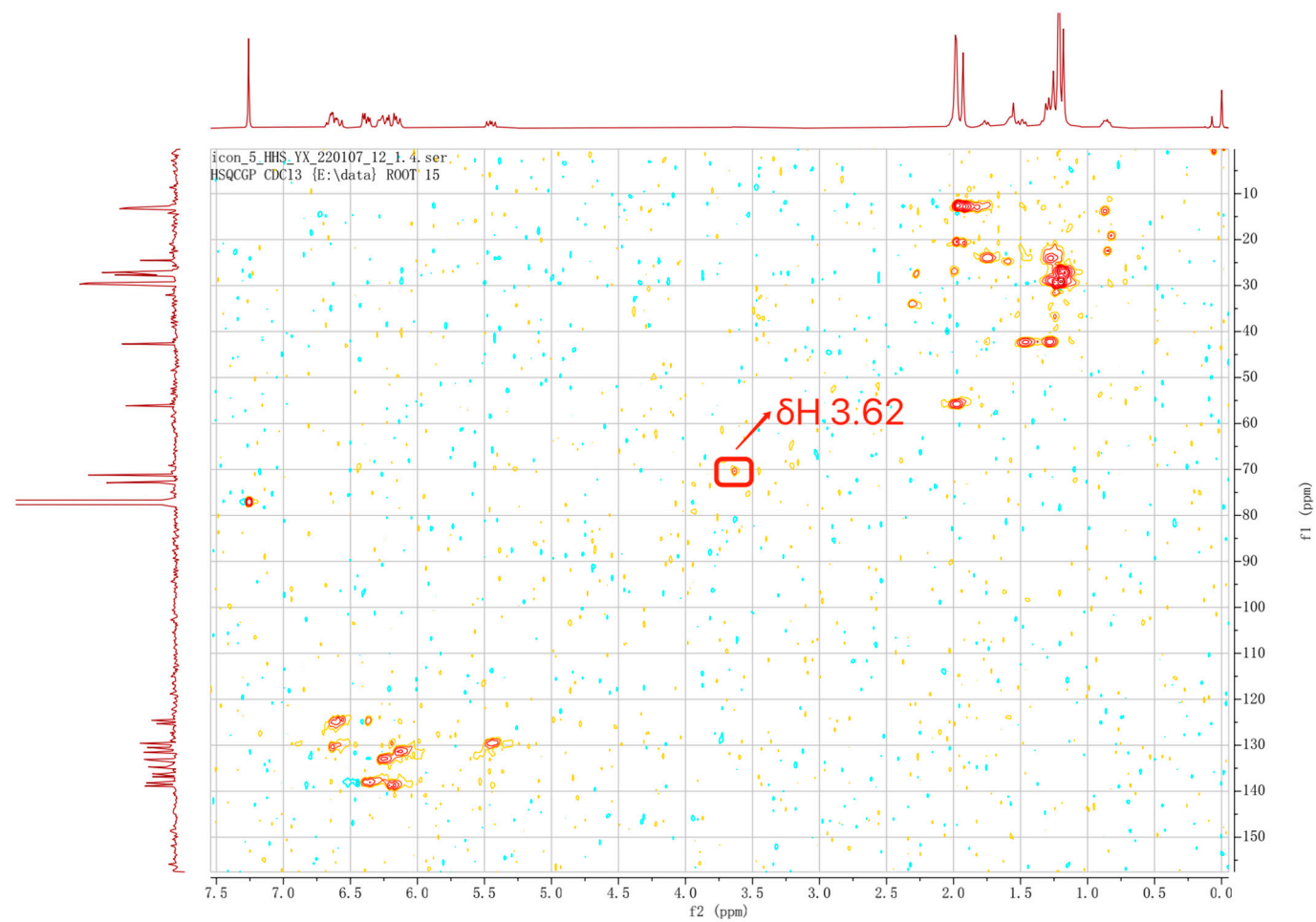


Figure S5. HSQC spectrum of arthroxanthin in CDCl<sub>3</sub>.