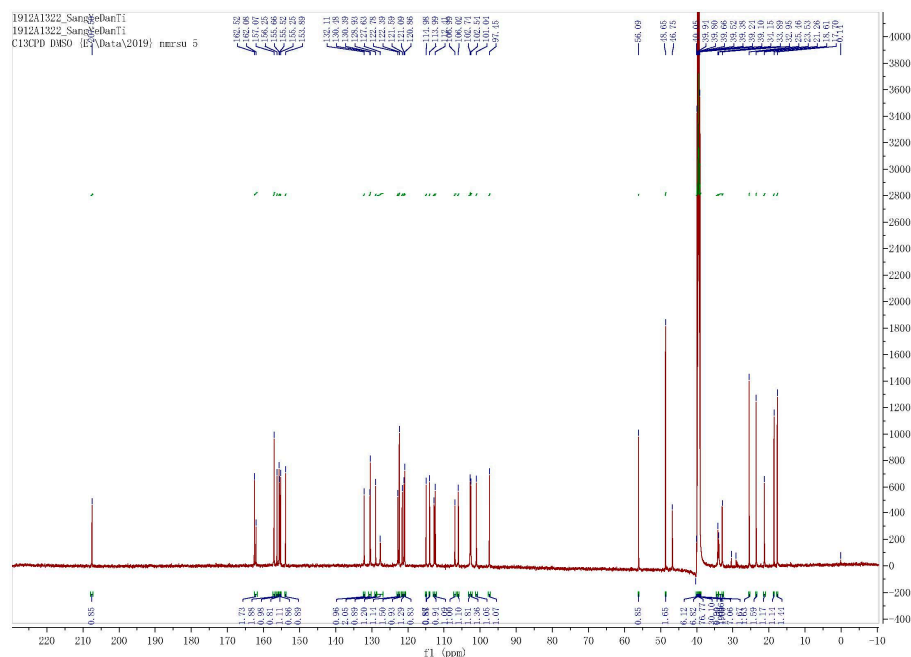
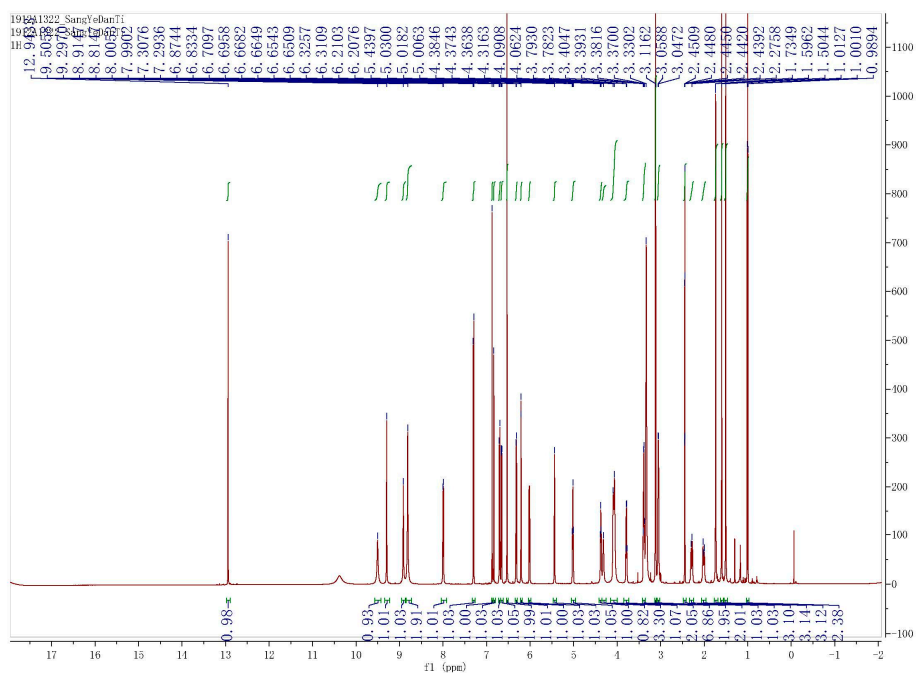


Figure S1. Liquid phase diagram during chalcomoracin preparation.



A. ^{13}C -NMR of chalconoracin.



B. ^1H -NMR of chalconoracin.

Figure S2. NMR data of chalconoracin.

Table S1. Experimental protocol for inhibitory activity assay.

Reagent	Blank (A1)	Control (A2)	Sample blank (A3)	Sample test (A4)
PBS buffer (7.4)	60 μ L	30 μ L	30 μ L	0 μ L
Inhibitor	0 μ L	0 μ L	30 μ L	30 μ L
α -Glucosidase	0 μ L	30 μ L	0 μ L	30 μ L
PNPG	50 μ L	50 μ L	50 μ L	50 μ L
Na ₂ CO ₃	150 μ L	150 μ L	150 μ L	150 μ L

Table S2. The molecular interactions between chalconoracin and α -glycosidase

Receptor		Interaction	Distance (\AA)
VAL-544	N	H-acceptor	3.60
ASP-95	O	H-donor	3.43
ALA-93	O	H-donor	2.99
GLY-119	O	H-donor	2.76
ARG-275	NH1	H-acceptor	2.94
ARG-275	NH2	H-acceptor	3.32
ARG-275	NH2	Pi-cation	5.71
PRO-287	O	H-donor	3.03