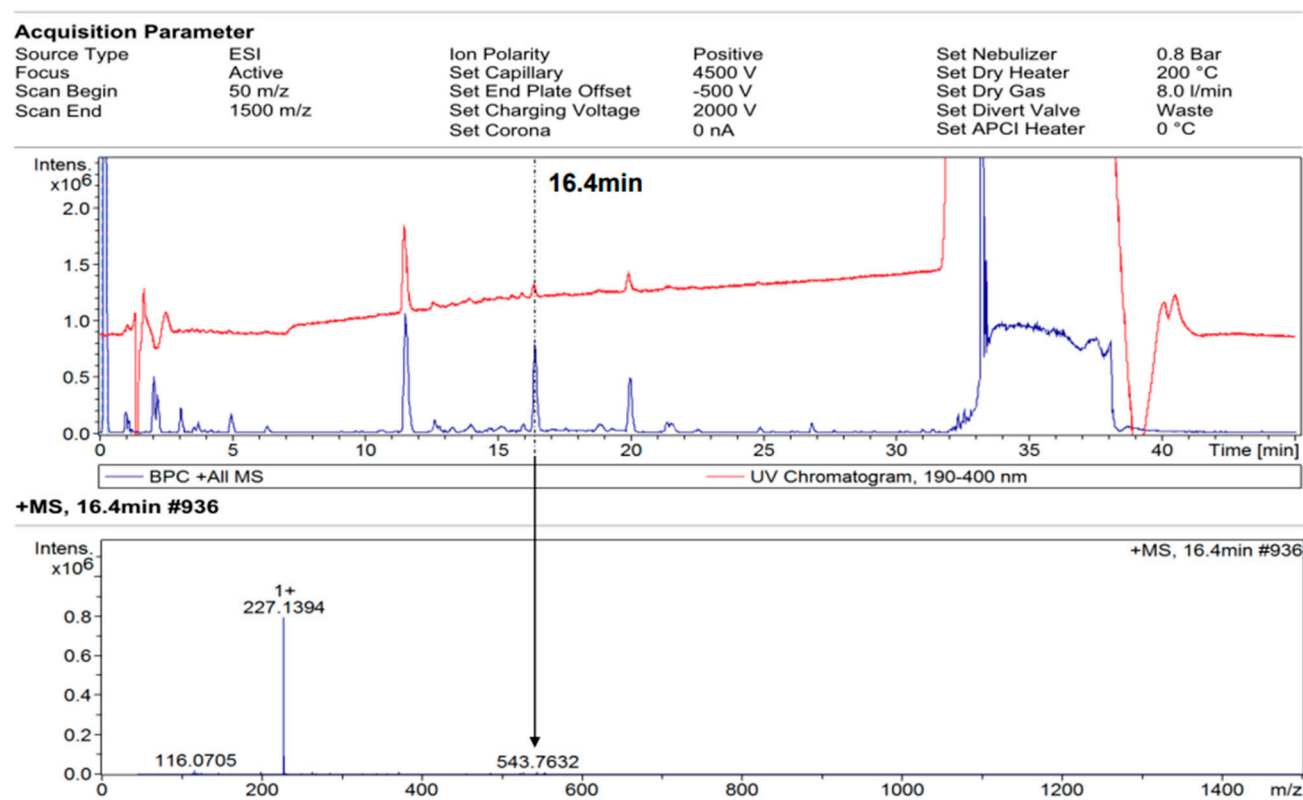


## Supplementary Materials

Supplementary Table S1. Primer sequence for qRT-PCR

Name	Organism	Forward sequence (5' to 3')	Reverse sequence (5' to 3')
<i>Slc7a11</i>	Mus musculus (Mouse)	CTT TGT TGC CCT CTC CTG CTT C	CAG AGG AGT GTG CTT GTG GAC A
<i>Gpx4</i>	Mus musculus (Mouse)	CCT CTG CTG CAA GAG CCT CCC	CTT ATC CAG GCA GAC CAT GTG C
<i>Chac1</i>	Mus musculus (Mouse)	TGA CCC TCC TTG AAG ACC GTG A	AGT GTC ATA GCC ACC AAG CAC G
<i>Alox15</i>	Mus musculus (Mouse)	GAC ACT TGG TGG CTG AGG TCT T	TCT CTG AGA TCA GGT CGC TCC T
<i>Actb</i>	Mus musculus (Mouse)	CAT TGC TGA CAG GAT GCA GAA GG	TGC TGG AAG GTG GAC AGT GAG G

Supplementary Figure S1. UPLC-Q-TOF MS/MS spectrum of mass produced OFBP



This figure show that GASGERGEVGPA purified from *P. olivaceus* was analyzed by liquid chromatography-tandem mass spectrometry (LC-MS/MS). The molecular mass and amino sequences. The LC-MS/MS spectrum of GASGERGEVGPA showed peaks at 543.7632<sup>2+</sup> m/z.