

Fig. S1 The extraction processes of polysaccharides from *G. frondosa*

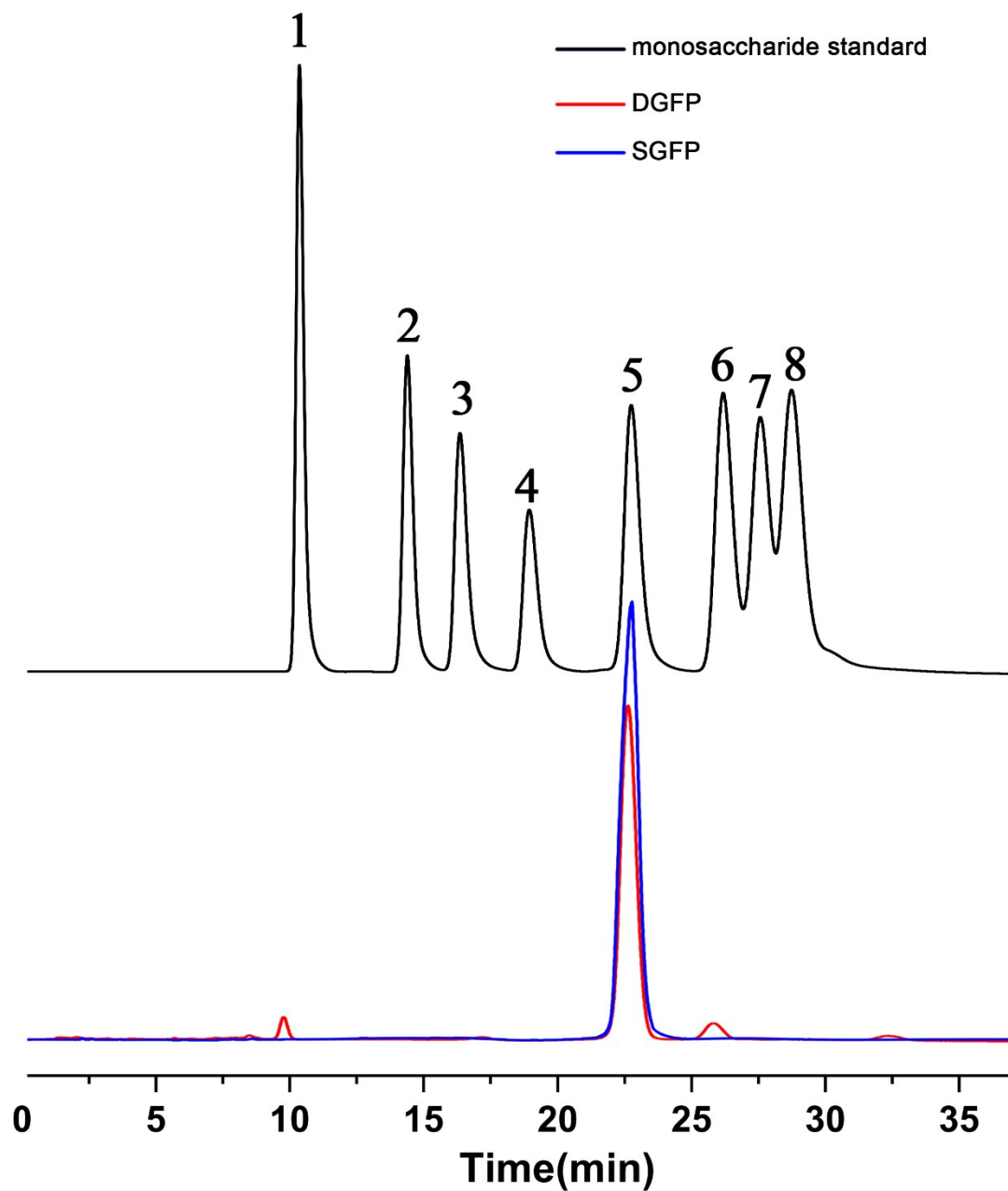


Fig. S2 HPLC chromatogram of mixed monosaccharide standard solution and samples.

Note: peaks 1-8 represent mannose, rhamnose, glucuronic acid, galacturonic acid, glucose, galactose, xylose and arabinose, respectively.

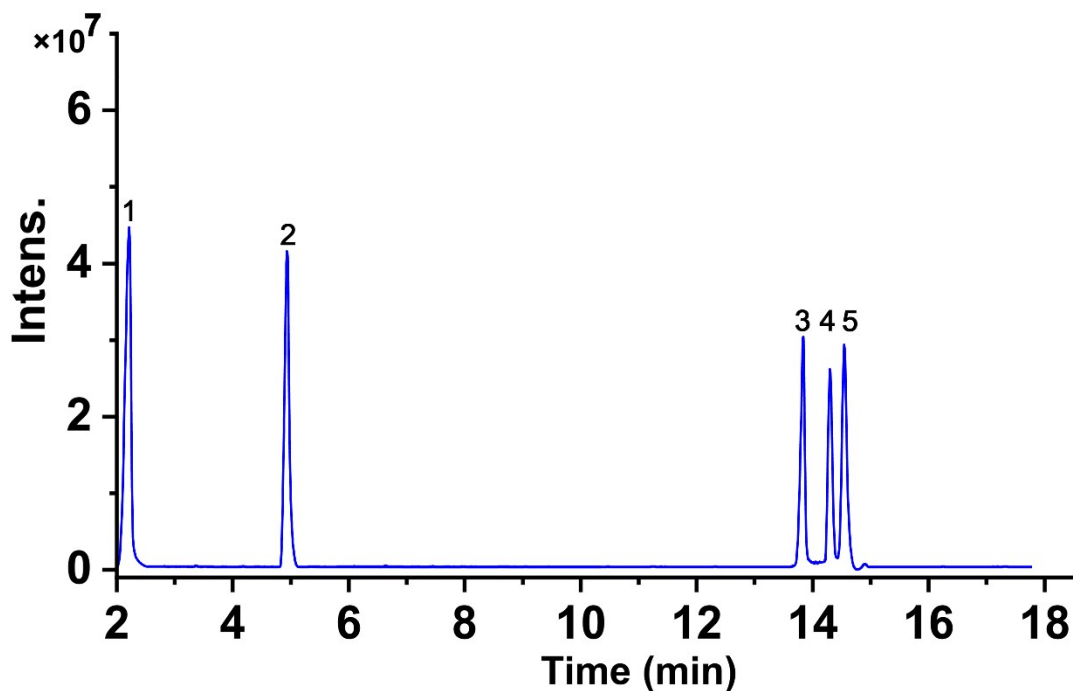


Fig. S3 GC of mixed monosaccharide standards. Note: peaks 1-5 represent glycerol, erythritol, galactose, mannose and glucose, respectively.

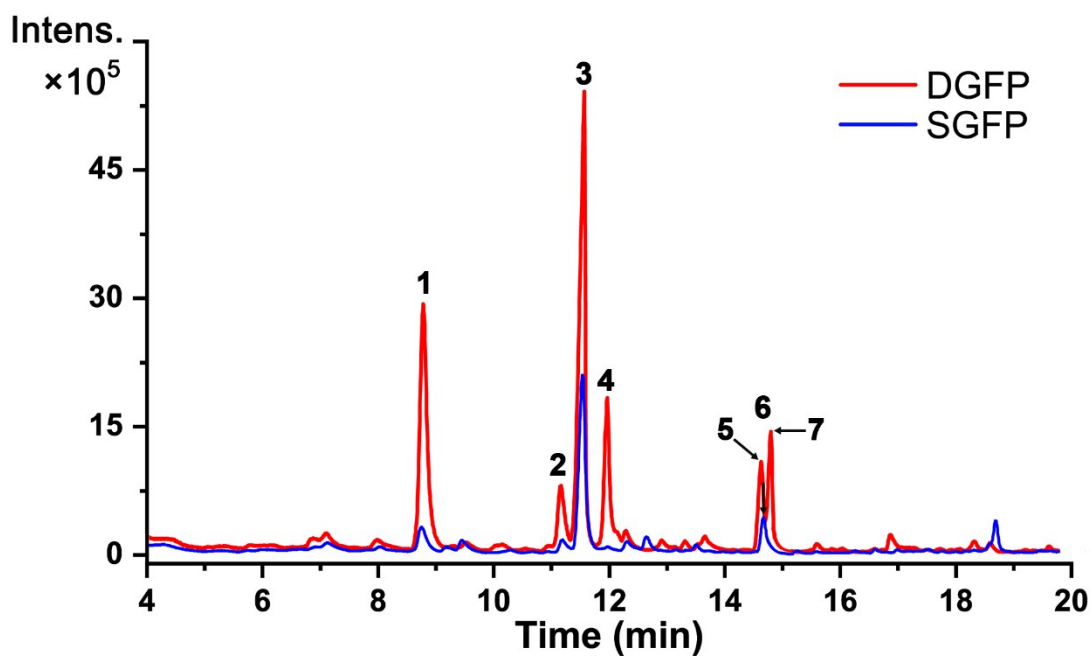


Fig. S4 Total ion gas chromatogram of methylation patterns of DGFP and SGFP. Note: signals 1-7 represent 2,3,4,6-Me₄-Glc_p, 2,4,6-Me₃-Glc_p, 2,3,6-Me₃-Glc_p, 2,3,4-Me₃-Glc_p, 2,3-Me₂-Gal, 2,3-Me₂-Glc_p, and 2,4-Me₂-Man, respectively.

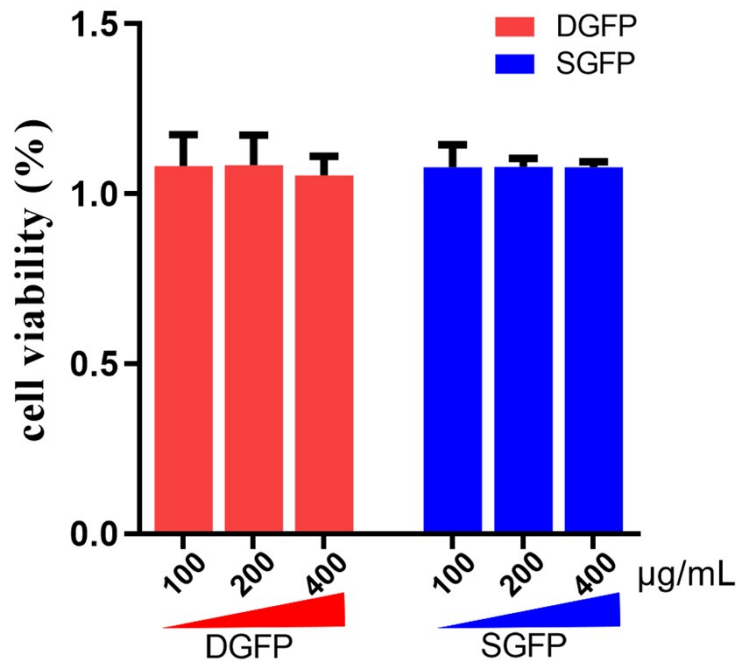


Fig. S5 The effects of DGFP and SGFP on cell viability of HepG2 cells.