Supporting Information

Cytotoxic Secondary Metabolites from the Endolichenic Fungus *Hypoxylon fuscum*
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Fig. 1S. HPLC chromatogram of standard monosaccharides derivatives and derivatives of constituent monosaccharides from compounds 3 and 4.
Fig. 2S. Cytotoxicity of compounds against K562, SW480, and HepG2 cells. (a) Cytotoxicity of compounds against K562 cells; (b) cytotoxicity of compounds against SW480 cells; (c) cytotoxicity of compounds against HepG2 cells; (d) cytotoxicity of cisplatin against K562, SW480, and HepG2 cells.
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**Fig. 12S.** HSQC spectrum of compound 2 in DMSO-$d_6$. 
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**Fig. 27S.** 1D selective NOE spectra of compound 4 in DMSO-$d_6$ by selective irradiation of the
(a) H-4α at δ$_H$ 2.41, (b) H-4β at δ$_H$ 1.53, (c) H-2α at δ$_H$ 1.34, (d) H-2β at δ$_H$ 1.14, and (e) CH$_3$-13 at δ$_H$ 0.94 protons.
**Fig. 28S.** $^1$H NMR spectrum of compound 5 in DMSO-$d_6$. 

[Diagram of compound 5 and NMR spectrum]
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Fig. 30S. HSQC spectrum of compound 5 in DMSO-d$_6$. 
Fig. 31S. $^1$H-$^1$H COSY spectrum of compound 5 in DMSO-$d_6$. 
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ITS sequence of *Hypoxylon fuscum*

GGAAGTAAAGTCGTAACAAGGTTCTCCTTCGTGTAACCAGCGGAGGGATCATTACT
GAGTTCTTACAAACTCCACCCTTTGTAACCATAACCAACTGGCTCCTCGCGTGAG
CTGCGGCTGTCTTGGTAGCTACCTACCCGATGTACCTACCCCTGTAACCTAGCGT
CTGCATATAAGCCGCCGGAAGGACCACACTAAACTCTCTTTCGACAGTGTATTCTGAATG
CTTCACTAAATAGTTAAAACTTTCAACACGGATCTCTTGTCTGTGCAATCAGTGAG
AGAACGCAGCGAAATGCGATAGTAAATGTGAAATGCAGTGAATCATCGAGCT
ATCTTTGAAACGCACATTGCGCCATTAGTATTCTAGTGCGCATGCTATTCGAGCGT
CATTTCCGACCCTGAGCCCTAGTTGCTTCGCATTGGGACTCACCAGGCTACCCTGTA
GTTCCTAATGACAGTGCGGTAGTTTCATAGTGACTCTCAGCGTAGTTATTTCTTCTC
GCTTTTCAGTAGCTGGTCCCCAGGCTAAAACCCTAATTTCTAGTGTTGACCTCG
GGATCAGG