Supporting Information

Rec. Nat. Prod. 17:3 (2023) 516-521

A New Sesquiterpenoid and Two Nitro-containing

Phenylpropionic Acid Derivatives from the Fungus

Aspergillus terreus LPFH-1

Jingmin Wu¹, Linlin Qiu¹, Yanli Zhou¹, Shen Yao¹

and Dabu Zhu^{1, 2*}

 ¹ The First People's Hospital of Linping District, Hangzhou 311100, China
 ² Collaborative Innovation Center of Yangtze River Delta Region Green Pharmaceuticals, Zhejiang University of Technology, Hangzhou 310014, China

Table of Contents	Page
Figure S1: ¹ H NMR Spectrum of 1 in CD ₃ OD (400 MHz)	2
Figure S2: ¹³ C NMR Spectrum of 1 in CD ₃ OD (100 MHz)	2
Figure S3:HSQC Spectrum of 1 in CD ₃ OD	3
Figure S4:HMBC Spectrum of 1 in CD ₃ OD	3
Figure S5: ¹ H- ¹ H COSY Spectrum of 1 in CD ₃ OD	4
Figure S6:NOESY Spectrum of 1 in CD ₃ OD	4
Figure S7: ¹ H NMR Spectrum of 2 in CD ₃ OD (400 MHz)	5
Figure S8: ¹³ C NMR Spectrum of 2 in CD ₃ OD (100 MHz)	5
Figure S9:HSQC Spectrum of 2 in CD ₃ OD	6
Figure S10:HMBC Spectrum of 2 in CD ₃ OD	6
Figure S11: ¹ H- ¹ H COSY Spectrum of 2 in CD ₃ OD	7
Figure S12: ¹ H NMR Spectrum of 3 in CD ₃ OD (400 MHz)	7
Figure S13: ¹³ C NMR Spectrum of 3 in CD ₃ OD (100 MHz)	8
Figure S14:HSQC Spectrum of 3 in CD ₃ OD	8
Figure S15:HMBC Spectrum of 3 in CD ₃ OD	9
Figure S16: ¹ H NMR Spectrum of 4 in CD ₃ OD (400 MHz)	9
Figure S17: ¹³ C NMR Spectrum of 4 in CD ₃ OD (100 MHz)	10
Figure S18: ¹ H NMR Spectrum of 5 in CD ₃ OD (400 MHz)	10
Figure S19: ¹³ C NMR Spectrum of 5 in CD ₃ OD (100 MHz)	11
Figure S20: ¹ H NMR Spectrum of 6 in CDCl ₃ (400 MHz)	11
Figure S21: ¹³ C NMR Spectrum of 6 in CDCl ₃ (100 MHz)	12
Figure S22: ¹ H NMR Spectrum of 7 in CDCl ₃ (400 MHz)	12
Figure S23: ¹³ C NMR Spectrum of 7 in CDCl ₃ (100 MHz)	13
Figure S24: ¹ H NMR Spectrum of 8 in DMSO-d ₆ (400 MHz)	13
Figure S25: ¹³ C NMR Spectrum of 8 in DMSO-d ₆ (100 MHz)	14
Figure S26: HRESIMS Spectrum of 1	14

Figure S27: ESIMS Spectrum of 2	15
Figure S28: ESIMS Spectrum of 3	15
Figure S29: Scifinder similarity report for compound 1	16
Table S1. ¹ H and ¹³ C NMR Data of 1 and the analog aspterric A in Methanol- <i>d</i> ₄ .	17
Table S1. ¹ H and ¹³ C NMR Data of 1 and the analog aspterric A in Methanol- d_4 .	17





Figure S3: HSQC Spectrum of 1 in CD₃OD



Figure S4: HMBC Spectrum of 1 in CD₃OD



Figure S5: ¹H-¹H COSY Spectrum of compound 1 in CD₃OD



Figure S6: NOESY spectrum of compound 1 in CD₃OD





Figure S9: HSQC Spectrum of 2 in CD₃OD



Figure S10: HMBC Spectrum of 2 in CD₃OD





9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5

Figure S14: HSQC Spectrum of 3 in CD₃OD

220

ppm









Figure S22: ¹H NMR Spectrum of 7 in CDCl₃ (400 MHz)



© 2022 ACG Publications. All rights reserved.





Figure S26: HRESIMS Spectrum of 1





Figure S27: ESIMS Spectrum of 2



Figure S28: ESIMS Spectrum of 3

REFERENCES	SUBSTANCES: CHEMICAL STRUCTURE			
Research Topic Author Name Company Name Document Identifier Journal Patent Tags SUBSTANCES Chemical Structure	Structure Editor:	Search Type: Exact Structure Substructure Similarity Show precision analysis		
Markush	structure or view detail.			
Molecular Formula	Import CVE	Ocembraw		
Property Substance Identifier	Import CAP	Launch a SciFinder/SciFinder" substance or reaction search directly from the latest version of ChemDraw. Learn More		
Reaction Structure	Search			
Chemical Structure similari	ity			
SUBSTANCES				
	Select All Deselect All			
	0 of 8 Similarity Candidates Selected	Substances		
	≥ 99 (most similar)	0		
	90-94	8		
	85-89	115		
	80-84	1226		
	0 70-74	/499		
	65-69	23275		
0-64 (least similar)				
	Get Substances			

SUBSTANCES @	☐ Get Reactions ▲ Get Reactions ▲ Get Sources ₹ Tools * Sort bv: [Similarity Score ▼	1 Service Keep He Send to Posted Alert → Diseley Others		
Analyze by: Substance Role Preparation Biological Study Reactant or Reagent Uses Show More	Image: Provide state in the state in	$Score: 94$ $= 2. 101726-17-4 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		
	Score: 94 □ 3, 107525-30-4 9 ~1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	Score: 94 ■ 4. 860439-79-8 9 ~1		
	Score: 91 ■ 5. 53042-57-2 9	Score: 91 6. 53042-58-3 9.		

Figure S29: Scifinder similarity report for compound 1



Table S1: ¹H and ¹³C NMR Data of 1 and the analog Aspterric A in Methanol-*d*₄.^{*a*}

No.	1			aspte	aspterric A	
	δ_{H}	$\delta_{\rm C}$		δ_{H}	δ_{C}	
1		175.7	1		175.9	
2	2.45, s	46.5	2	2.45, s	46.5	
3		72.1	3		72.1	
4	1.58, m	42.7	4	1.57, m	42.7	
5	2.09, m	23.5	5	2.09, m	23.5	
6	5.15, t (7.0)	125.7	6	5.14, t (7.1)	125.9	
7		135.9	7		135.6	
8	2.02, t (7.0)	40.4	8	2.03, m	40.1	
9	2.14, q (7.0)	27.3	9	2.16, m	27.1	
10	5.38, t (7.0)	126.5	10	5.46, t (7.0)	130.3	
11		135.9	11		131.4	
12	1.28, s	27.1	12	1.28, s	27.2	
13	1.63, s	16.0	13	1.63, s	16.0	
14	3.91, s	69.0	14	4.44, s	71.3	
15	1.64, s	13.7	15	1.65, s	14.0	
				2.04, s	20.8	
					172.9	

 $^{\it a}$ $^1{\rm H}$ NMR recorded at 400 MHz, $^{13}{\rm C}$ NMR recorded at 100 MHz.