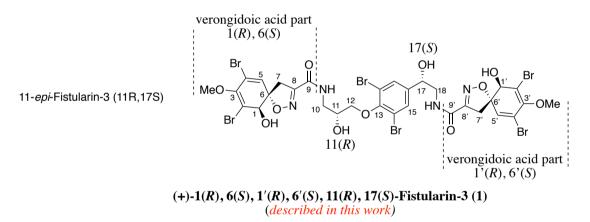
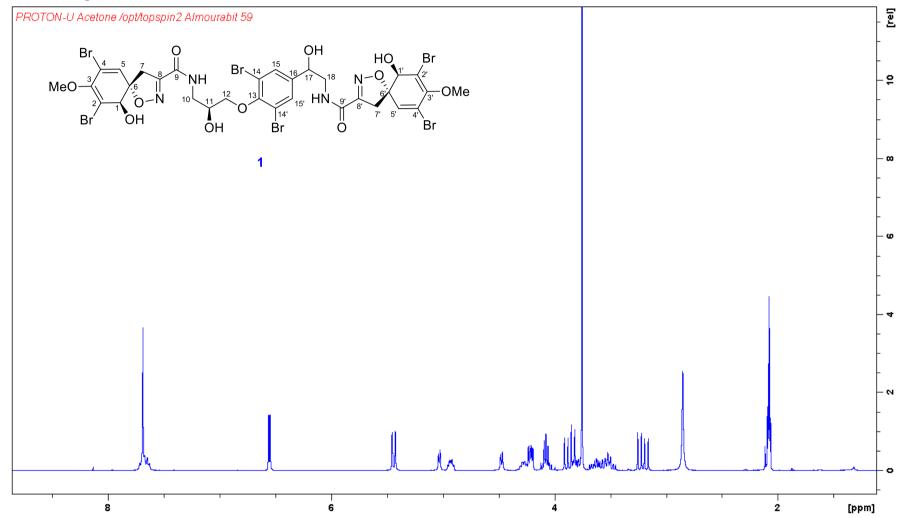
SUPPLEMENTARY MATERIAL

Synergistic AML cell death induction by marine cytotoxin (+)-1(*R*), 6(*S*), 1'(*R*), 6'(*S*), 11(*R*), 17(*S*)-fistularin-3 and Bcl-2 inhibitor Venetoclax

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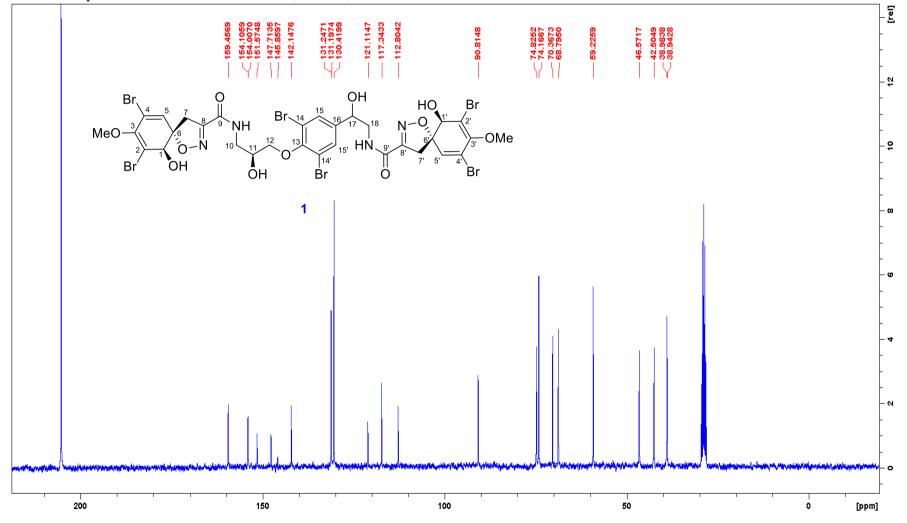
Supplementary Figure 1

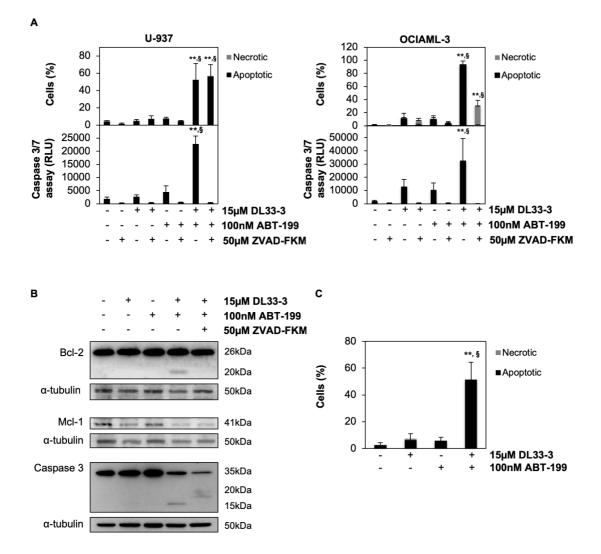




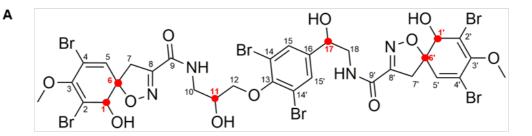
(A) ¹H NMR spectrum of (+)-11R, 17S-fistularin-3 in Acetone-d6, 500MHz, 298K.

(B) ¹³C NMR spectrum of Fistularin -3 in Acetone-d6, 125MHz, 298K.





Supplementary Figure 2. Effect of combination treatments of RS-F3 and ABT-199 in AML cell lines in presence of zVAD-FMK and concomitant treatments. (A) Nuclear morphology analyses (upper panel) and caspase 3/7 activity assay (lower panel) in U-937 and OCIAML-3 cells treated with RS-F3 (24h) and then ABT-199 (16h) in presence or absence of 50μ M zVAD-FMK. (B) Western blotting analyses in U-937 cells treated as described above. Blots are representative of three independent experiments. (C) Nuclear morphology analysis of U-937 cells treated concomitantly with RS-F3 and ABT-199 for 18h. All histograms represent the mean ± SD of three independent experiments. Asterisks indicate statistical difference respect to control. The symbol § indicates statistical difference of combination treatments respect to both compounds taken alone. * $p \le 0.05$, ** $p \le 0.01$; § ≤ 0.01 . RLU: relative luminescence units.



в

•	Stereo- isomers	Global Energy	Stereo- isomers	Global Energy	Stereo- isomers	Global Energy	Stereo- isomers	Global Energy
	RS RS SR	-48.22	SR RS RR	-38.89	RRSSRS	-35.91	SSSRRR	-32.87
	SS <mark>RS</mark> RR	-45.15	RRRRSS	-38.69	SRRRR	-35.90	RSSRRR	-32.38
	RRSSRR	-44.86	RRSRSR	-38.65	RR <mark>RS</mark> RS	-35.50	RSRRRS	-32.31
	SRSSRR	-44.84	SRRRSR	-38.41	SSSSSS	-35.28	SSSRRS	-31.89
	RS <mark>RS</mark> RS	-44.34	RS <mark>RS</mark> RR	-38.38	SR <mark>RS</mark> RS	-35.18	RSSSSS	-31.42
	RS <mark>RS</mark> SS	-42.91	SRSSSS	-37.94	RSSRSR	-35.14	SRSSSR	-31.29
	SS RS RS	-42.41	SSSSRS	-37.80	SR RS SS	-35.06	RSSRRS	-30.81
	SSSRSR	-42.33	RRRRSR	-37.78	RSSRSS	-35.04	RR <mark>RS</mark> SR	-30.72
	RRSRRS	-41.07	SRSRRR	-37.45	SSRRRR	-35.00	SSRRSS	-29.84
	RR <mark>RS</mark> RR	-41.05	SRSRRS	-37.45	RSRRRR	-34.70	SSRRSR	-29.18
	SRSSRS	-40.74	SRRRRS	-37.02	RSRRSS	-34.66	SSSRSS	-27.92
	SS RS SR	-39.88	RRSSSS	-36.91	RRSSSR	-34.36	RRRRRS	-27.61
	SS RS SS	-39.69	SSSSSR	-36.87	SRRRSS	-34.34	RSSSSR	-27.58
	RRSRRR	-39.38	RSSSRS	-36.58	RRSRSS	-34.02	RRRRRR	-27.09
	RSRRSR	-39.18	SSRRRS	-36.42	SSSSRR	-33.39	RSSSRR	-25.67
	SRSRSR	-38.92	SR RS SR	-36.21	RR <mark>RS</mark> SS	-32.96	SRSRSS	-25.04

Supplementary Figure 3. (A) The configuration of fistularin-3. Positions of six chiral centers of fistularin-3 were marked with red dots and carbon numbers are labeled. **(B) Global energy scores for all 64 stereoisomers of fistularin-3.** C11(R), C17(S) stereoisomers are emphasized as bold text in red. Four C11-C17 diastereoisomers with established C1(R), C6(S), C1'(R), C6'(S) configuration are shown in blue boxes.