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Targeted activation of the SHP-1/PP2A signalling axis elicits apoptosis  
of chronic lymphocytic leukemia cells

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Contributions: E. T. performed the majority of the in vitro research; M. A. P. performed some of the in vitro research, wrote and reviewed the manuscript; F. F. provided clinical patient samples and performed some of the in vitro research; V. T. provided clinical patient samples and performed some of the in vitro research; M. F. provided clinical patient samples and performed some of the in vitro research; G. Z. designed the FTY720-analogues used in this study; G.R., V.P. synthesized and purified the FTY720-analogues used in this study; L.B. performed some of the in vitro research; A.V. provided clinical patient samples; F. Z. performed some of the in vitro research; G. S. provided intellectual input into the lymphocyte studies and reviewed the manuscript; A. M. B. designed the research, reviewed and analyzed the data, participated in analysis of data and wrote the manuscript; L. T. provided clinical patient samples, analyzed the data and wrote parts of the manuscript.