Figure S1. Correlation between SVCT2 expression and clinical characteristics. SVCT2 expression levels of patients with PDAC in different clinical stages is shown using a histogram (left). The Kaplan-Meier method was used to analyze the association between SVCT2 expression and disease-free survival rate of patients with pancreatic cancer (right). Data were collected from TCGA datasets and are shown as the mean \pm standard error of the mean. ***P<0.001. SVCT2, sodium-dependent VC transporter 2.



Figure S2. VC shows no potent killing activity when applied to human normal cells. peripheral blood mononuclear cells were treated with 4 mM VC for 48 h, and then examined by flow cytometry for assessment of apoptosis. Data are shown as the mean \pm standard error of the mean of three independent experiments. VC, vitamin C; 7-AAD, 7-aminoactinomycin D.



Figure S3. siRNA-mediated knockdown of TET2 and PHLPP2 in Capan-1 and PANC-1 cells lines. (A) Quantitative changes in the mRNA expression levels of TET2 were detected by RT-qPCR 48 h post-transfection. (B) Quantitative changes in the mRNA expression levels of PHLPP2 were detected by RT-qPCR 48 h post-transfection. Data are presented as the mean ± standard error of the mean of three independent experiments. ***P<0.001. PHLPP2, PH domain leucine-rich repeat protein phosphatase 2; si, small interfering RNA; TET2, ten-eleven translocation 2; NC, negative control; RT-qPCR, reverse transcription-quantitative PCR.



Figure S4. VC-induced cell necrosis relies on PHLPP2 only in Capan-1 cells. Following PHLPP2-knockdown, Capan1 or PANC-1 cells were treated with 4 mM VC for 48 h, and then the percentages of necrotic cells were examined by flow cytometry. Data were shown as mean ± standard error of the mean of three independent experiments. *P<0.05, ***P<0.001. VC, vitamin C; PHLPP2, PH domain leucine-rich repeat protein phosphatase 2; NC, negative control; si, small interfering RNA.



Figure S5. Correlation between the expression of PHLPP2/TET2 and C-Raf pS338. The correlation between the expression of PHLPP2/TET2 and C-Raf pS338 was determined using Pearson's correlation analysis. Data were collected from the Cancer Genome Atlas datasets and analyzed by R software. PHLPP2, PH domain leucine-rich repeat protein phosphatase 2; TET2, ten-eleven translocation 2; SVCT2, sodium-dependent VC transporter 2.



Table SI. Patient characteristics.

Total	178
Age	
Range, years 3.	5-88
Median, years	65
Sex	
Male 98	(55.1)
Female 80	(44.9)
Histology	
Pancreas-adenocarcinoma ductal type 147	(82.6)
Pancreas-colloid (mucinous non-cystic) 4	(2.2)
carcinoma	
Pancreas-undifferentiated carcinoma 1	(0.6)
Pancreas-adenocarcinoma-other subtype 25	(14.0)
Stage	
I 21	(11.8)
II 147	(82.6)
III 4	(2.2)
IV 4	(2.2)
Chemotherapy treatment 33	(18.5)
Radiotherapy treatment 43	(24.2)