 Supplemental material

Identification of Histone Deacetylase Inhibitors with (Aryliden)aminoxy Scaffold active in Uveal Melanoma Cell Lines

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**Figure S1 HDAC isoform selectivity assays.** Dose-response curves for compounds SN2, VS16, LD10 and VS13. Data are present as mean ± SEM. Compounds were tested in duplicate in a 10-point dose curve with 3-fold serial dilution starting from 30μM.

**Figure S2 MTT assay.** In vitro cytotoxicity at the 72 hour time point of the different compounds in human uveal melanoma cell lines 92.1 and Mel270 and ovarian cancer cell lines A2780 and SKOV3, as assessed by the MTT cell viability assay. Data are expressed as percent of control with the DMSO
solvent, which was used at the same amount present in the highest compound concentration. Error bars represent SD of quadruplicates. One representative experiment is shown.

**Figure S3 Cell cycle analysis.** Flow-cytometric analysis of the DNA content of uveal melanoma 92.1 cells after treatment with 10 µM of the indicated compounds for 48 hours. The cells were treated and cell cycle distribution was analyzed by flow cytometry after fixation and staining with PI. The percentage of cells in each category is indicated. One representative experiment is shown.
Figure S4 qRT-PCR. Comparison of the modulation of expression of five different genes induced by SAHA and VS13 in uveal melanoma cells 92.1. Cells were treated for 48 hours with 10 µM compound or the corresponding amount of DMSO. Data, normalized to GAPDH housekeeping gene, are expressed as fold change relative to the DMSO control. Error bars represent SD of triplicates. One representative experiment is shown.

NMR characterization of compound 2f (VS13):

$^1$H NMR (400 MHz DMSO-$d_6$):

$^{13}$C-NMR (100 MHz DMSO-$d_6$):
