

**Supplementary Table 1.**  
IC<sub>50</sub> values [ $\mu$ M] of HDAC8 inhibitors

	Cpd2	PCI-34051
HDAC1	*	59.0
HDAC2	*	*
HDAC3	*	*
HDAC4	*	*
HDAC5	*	*
HDAC6	75.6	30.0
HDAC7	*	*
HDAC8	33.7	0.017
HDAC9	*	*
HDAC10	*	*
HDAC11	*	*

\* The calculated IC<sub>50</sub> value of this HDAC is above the highest concentration included in the assay