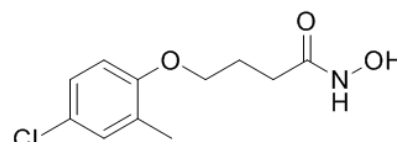


**Product Name** : Droxinostat  
**Cat. No.** : PC-43447  
**CAS No.** : 99873-43-5  
**Molecular Formula** : C<sub>11</sub>H<sub>14</sub>ClNO<sub>3</sub>  
**Molecular Weight** : 243.69  
**Target** : HDAC  
**Solubility** : 10 mM in DMSO



## Biological Activity

Droxinostat (NS-41080) is a selective **HDAC** inhibitor with IC<sub>50</sub> of 16.9, 2.47 and 1.46 μM for HDAC3, HDAC6 and HDAC8, respectively.

Droxinostat (NS-41080) does not inhibit HDAC1, HDAC2, HDAC4, HDAC5, HDAC7, HDAC9, and HDAC10 with IC<sub>50</sub> of >20 μM.

Droxinostat (NS-41080) sensitizes malignant cells to death receptor ligands FAS and TRAIL sensitization with IC<sub>50</sub> of 20 and 39 μM, respectively.

Droxinostat (NS-41080) decreases the expression of the caspase-8 inhibitor FLIP, downregulates c-FLIP(L) and c-FLIP(S) mRNA and protein levels, causes PARP degradation, reduces cell survival, and induces apoptosis in MCF-7 breast cancer cells.

## References

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McCourt C, et al. *Clin Cancer Res.* 2012 Jul 15;18(14):3822-33.

Liu J, et al. *Transl Oncol.* 2016 Feb;9(1):70-78.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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