

**Product Name** : cIAP1 E3 ligase inhibitor D19

**Synonyms** : cIAP1 inhibitor D19

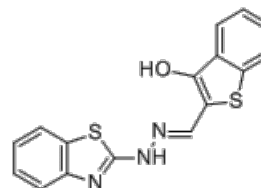
**Cat No.** : M14312

**CAS Number** : 380640-76-6

**Molecular Formula** : C<sub>16</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>S

**Formula Weight** : 325.40

**Chemical Name** : (E)-2-((2-(benzo[d]thiazol-2-yl)hydrazono)methyl)benzo[b]thiophen-3-ol



**Description** : cIAP1 E3 ligase inhibitor D19 (cIAP1 inhibitor D19) is a small-molecule inhibitor of E3 ligase activity of cIAP1, inhibits cIAP1 auto-ubiquitination with IC<sub>50</sub> of 14.1 uM, shows no effect on autoubiquitination of BRCA1/BARD1; binds to the RING domain of cIAP1 and inhibits the E3 ligase activity of cIAP1 by interfering with the dynamics of its interaction with E2, inhibited cIAP1 autoubiquitination with all of the E2s (t Ubch5a/b/c, Ubch6, and Ubcl3/Uev1a) that can mediate its activity; suppresses c-MYC oncogenic function and cancer cell proliferation by stabilizing MAD1 protein and promoting the degradation of c-MYC.

**Pathway** : Proteasome/Ubiquitin

**Target** : E3 Ubiquitin Ligase

**Receptor** : E3 Ubiquitin Ligase

**Solubility** : —

**SMILES** : OC1=C(/C=N/NC2=NC3=CC=CC=C3S2)SC4=CC=CC=C41

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Li H, et al. Proc Natl Acad Sci U S A. 2018 Sep 4. pii: 201807711.