

Catalog	Unit
TBI1478-10MG	10 mg
TBI1478-50MG	50 mg

### Product Details

**Formal Name:** 2-(3-Pyridinylmethylene)-1H-indene-1,3(2H)-dione

**Molecular Formula:** C<sub>15</sub>H<sub>9</sub>NO<sub>2</sub>

**Formula Weight:** 235.24

**CAS Number:** 31083-55-3

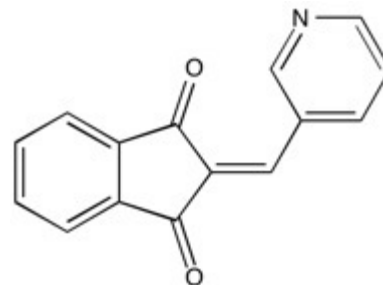
**Purity:** >98%

**Formulation:** Powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 6 mg/ml with warming).

**Storage:** Room temperature

**Stability:** ≥ 1 year.



### Applications

E3 Ubiquitin ligase inhibitor

### Functions

Inhibitor of Bmi1/Ring1A, subunits of the polycomb repressive complex 1 (PRC1). Inhibits self-ubiquitination (IC<sub>50</sub> = 3.9 μM) but does not increase cellular levels of either subunit. Blocks Bmi1/Ring1A-mediated ubiquitination and drug-induced degradation of topoisomerase 2α. Inhibits H2A/H2AX ubiquitination via blocking the E3 ubiquitin ligase activity of RNF2 and a Bmi1/RNF2 complex. Blocks polycomb repressor complex (PRC) 1-mediated histone H2A ubiquitination in vitro and in vivo and as such represents a new tool for studying chromatin remodeling.

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 6 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

**For research use only.**