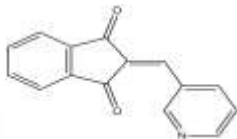


**PRODUCT: PRT4165****ALTERNATE NAME:** 2-(3-Pyridinylmethylene)-1H-Indene-1,3(2H)-dione;  
NSC600157**CATALOG #:** B1054-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>15</sub>H<sub>19</sub>NO<sub>2</sub>**MOLECULAR WEIGHT:** 235.24**CAS NUMBER:** 31083-55-3**APPEARANCE:** Yellow solid**SOLUBILITY:** DMSO (>20 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light**DESCRIPTION:** PRT4165 is a potent inhibitor of PRC1 (polycomb-repressive complex 1)-mediated histone H2A ubiquitylation *in vivo* and *in vitro*. PRT4165 inhibits the *in vitro* histone H2A E3 ubiquitin ligase activity of PRC1 components RING1, RNF2, and a BMI1/RNF2 complex. PRT4165 also inhibits DNA double-strand breaks induced ubiquitylation of histone H2AX. In addition, it prevents Bmi1/Ring1A-mediated ubiquitination and drug-induced degradation of topoisomerase 2α (Top2α).**REFERENCES:** Ismail. I.H., *et al.* (2013). *J. Biol. Chem.* **288**, 26944-26954.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

NSC 66811 (Cat. No. 2009-5)

NSC-687852 (Cat. No. 2021-5, 25)

NSC 146109 hydrochloride (Cat. No. 1907-5)

SKP In C1 (Cat. No. 2343-5, 25)

SMER-3 (Cat. No. 2514-5, 25)

(±)- Thalidomide (Cat. No. 2020-10, 50)

TCID (Cat. No. 2204-5, 25)

**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**