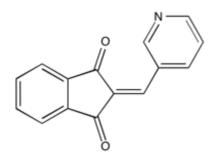


Catalog # 10-1478 PRT-4165

CAS# 31083-55-3 2-(3-Pyridinylmethylene)-1H-indene-1,3(2H)-dione Lot # X106261



Inhibitor of Bmi1/Ring1A, subunits of the polycomb repressive complex 1 (PRC1). Inhibits selfubiquitination ($IC_{50} = 3.9 \mu M$) but does not increase cellular levels of either subunit. Blocks Bmi1/Ring1Amediated ubiquitination and drug-induced degradation of topoisomerase 2α .¹ 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.²

- 1) Alchanati et al. (2009), The E3 ubiquitin-ligase Bmi1/Ring1A controls the proteasomal degradation of Top2alpha cleavage complex a potentially new drug target; PLoS One, **4** e8104
- 2) Ismail et al. (2013), A small molecule inhibitor of polycomb repressive complex 1 inhibits ubiquitin signaling at DNA double-strand breaks; J. Biol. Chem., **288** 26944

PHYSICAL DATA

Molecular Weight:	235.24
Molecular Formula:	C ₁₅ H ₉ NO ₂
Purity:	98% by TLC
-	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml), or Ethanol (up to 6 mg/ml with warming)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied, desiccated at room temperature for up to 1 year from the date of purchase.
	Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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