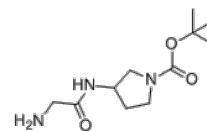


**Product Name** : MBD2 inhibitor APC  
**Cat. No.** : PC-72568  
**CAS No.** : 1353960-31-2  
**Molecular Formula** : C<sub>11</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub>  
**Molecular Weight** : 243.307  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

MBD2 inhibitor APC (APC) is a small molecule inhibitor targeting an intrinsically disordered protein region (IDPR) of **MBD2** with antimetastatic activity, inhibits DOT-mediated PPI of MBD2, efficiently disrupts MBD2 interaction with p66α with IC<sub>50</sub> of 1.03 μM (FRET).

APC suppresses the migration of breast adenocarcinoma MDA-MB-231 (LM1) and colorectal carcinoma HCT116 cells.

APC induces mesenchymal-epithelial transition (MET) on treatment of mesenchymal type of cancer cells.

APC exhibits a potent inhibition of the cancer metastasis to lung in xenograft mice transplanted with the LM1 cells, with no significant effects on body weight.

## References

Min Young Kim, et al. *Sci Adv.* 2019 Nov 20;5(11):eaav9810.

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

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