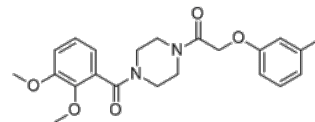


**Product Name** : MS37452  
**Cat. No.** : PC-62651  
**CAS No.** : 423748-02-1  
**Molecular Formula** : C<sub>22</sub>H<sub>26</sub>N<sub>2</sub>O<sub>5</sub>  
**Molecular Weight** : 398.459  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

MS37452 is a small-molecule modulator of methyl-lysine binding for **CBX7** chromodomain, disrupts **CBX7**-H3K27me3 and H3K9me3 binding with K<sub>i</sub> of 43.0 and 55.3 μM, respectively

MS37452 derepresses transcription of Polycomb repressive complex target gene p16/CDKN2A by displacing CBX7 binding to the INK4A/ARF locus in prostate cancer cells.

MS37452 disrupts CBX7 binding to the INK4A/ARF locus, subsequently resulting in transcriptional de-repression of its target genes p14/ARF and p16/INK4a in PC3 cells.

## References

Ren C, et al. *Chem Biol.* 2015 Feb 19;22(2):161-8.

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

E-mail: tech@probechem.com