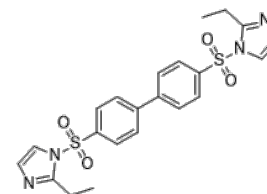


**Product Name** : RBPMS inhibitor RB98  
**Cat. No.** : PC-26673  
**CAS No.** : 1206152-89-7  
**Molecular Formula** : C<sub>22</sub>H<sub>22</sub>N<sub>4</sub>O<sub>4</sub>S<sub>2</sub>  
**Molecular Weight** : 470.56  
**Target** : Foxo1  
**Solubility** : 10 mM in DMSO



CAS: 1206152-89-7

## Biological Activity

RBPMs inhibitor RB98 is a specific small-molecule inhibitor of RNA binding protein with multiple splicing (**RBPMs**) with SPR KD of 402 nM, exhibits competitive inhibition of **FOXO1** mRNA-RBPMs binding with IC<sub>50</sub> of 3.1 μM in fluorescence polarization (FP) assays.

RB98 treatment of leukemia cells resulted in down-regulation of FOXO1 expression, alongside an enrichment of FOXO1 transcripts associated with RBPMs.

RB98 inhibited the proliferation and promoted the apoptosis of leukemia cells.

RB98 treatment resulted in a decrease in the FOXO1 mRNA abundance in polysomes, induced apoptosis in cells and diminished the colony-forming ability of primary AML cells.

RB98 reduced the leukemic burden in RUNX1-ETO9a-driven AML models.

## References

Liu P, et al. *Sci Transl Med*. 2026 May 6;18(848):eadv8951.

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

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