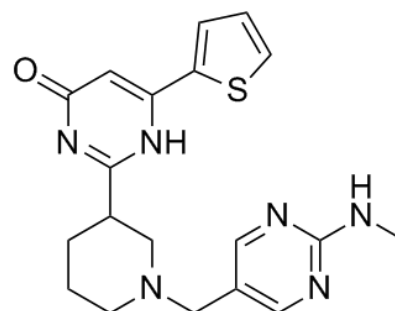


**Product Name** : Ribocil  
**Cat. No.** : PC-45637  
**CAS No.** : 1381289-58-2  
**Molecular Formula** : C<sub>19</sub>H<sub>22</sub>N<sub>6</sub>OS  
**Molecular Weight** : 382.4826  
**Target** : Bacterial  
**Solubility** : 10 mM in DMSO



## Biological Activity

Ribocil is a synthetic mimic of riboflavin 5'-monophosphate (FMN) that competes with the natural ligand to inhibit **FMN riboswitch**-mediated expression of ribB.

Ribocil depletes cellular levels of riboflavin with an IC<sub>50</sub> value of 0.3 μM and inhibits E. coli growth with an MIC value of 2 ug/ml.

## References

Howe JA, et al. *Nature*. 2015 Oct 29;526(7575):672-7.

Hermann T. *Nature*. 2015 Oct 29;526(7575):650-1.

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

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