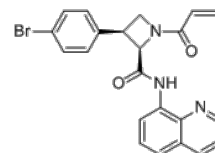


**Product Name** : NSUN2 inhibitor MY-1B  
**Cat. No.** : PC-21301  
**CAS No.** : 2929308-79-0  
**Molecular Formula** : C<sub>22</sub>H<sub>18</sub>BrN<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 436.31  
**Target** : Histone Methyltransferase (HMTase)  
**Solubility** : 10 mM in DMSO



CAS: 2929308-79-0

## Biological Activity

NSUN2 inhibitor MY-1B is specific, covalent inhibitor of RNA methyltransferase **NSUN2** (IC<sub>50</sub>=1.3 μM) that stereoselectively react with the catalytic C271, has IC<sub>50</sub> of 2.4 μM in RNA methylation assays.

MY-1B do not cross-react with other human NSUNs.

MY-1B shows IC<sub>50</sub> values for effects on cell growth that ranged from 10-30 μM in human cancer cell lines treated with theazetidine acrylamides for 48 h.

MY-1B suppresses NSUN2-tRNA interactions in human cells.

## References

Tao Y, et al. *Angew Chem Int Ed Engl.* 2023 Nov 1:e202311924.

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

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