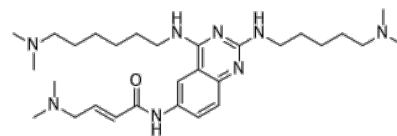


**Product Name** : UNC10013  
**Cat. No.** : PC-23137  
**CAS No.** :  
**Molecular Formula** : C<sub>29</sub>H<sub>50</sub>N<sub>8</sub>O  
**Molecular Weight** : 526.77  
**Target** : Histone Methyltransferase (HMTase)  
**Solubility** : 10 mM in DMSO



### Biological Activity

UNC10013 is a potent, selective and cell-active covalent ligand/negative allosteric modulator of triple Tudor domain (3TD) of **SETDB1** with TR-FRET IC<sub>50</sub> of 57 nM, targets the Cys385 of SETDB1.

UNC10013 has a k<sub>inact</sub>/K<sub>i</sub> of 1.0 x 10<sup>6</sup> M<sup>-1</sup>s<sup>-1</sup> and demonstrates proteome-wide selectivity.

UNC10013 shows no significant direct inhibition of the methyltransferase activity of SETDB1 in vitro (IC<sub>50</sub>=64.9 uM).

UNC10013 exhibits negative allosteric modulator properties and making it a promising tool to study the biological role of SETDB1 in disease progression.

### References

- Uguen M, et al. *bioRxiv* [Preprint]. 2024 Sep 28:2024.09.27.615363.
- Uguen M, et al. *Nat Commun*. 2025 Feb 24;16(1):1905.

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

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