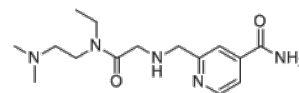


**Product Name** : KDOAM-25  
**Cat. No.** : PC-60020  
**CAS No.** : 2230731-99-2  
**Molecular Formula** : C<sub>15</sub>H<sub>25</sub>N<sub>5</sub>O<sub>2</sub>  
**Molecular Weight** : 307.398  
**Target** : Histone Demethylase  
**Solubility** : 10 mM in DMSO



## Biological Activity

KDOAM-25 (KDM5 inhibitor KDOAM 25) is a potent, selective **KDM5 sub-family (JARID1)** inhibitor with biochemical IC<sub>50</sub> of 71/19/69/69 nM for KDM5A/B/C/D, respectively.

KDOAM-25 weakly inhibits KDM4C/KDM2B (IC<sub>50</sub>=4.8/4.4 μM) and good selectivity over other demethylases.

KDOAM-25 most potently inhibits KDM5B (IC<sub>50</sub>=50 μM) and increases H3K4me<sub>3</sub> levels in HeLa cells.

KDOAM-25 increases global H3K4 methylation, causes G1 cell-cycle arrest and impairs cell proliferation in multiple myeloma MM1S cells.

## References

Tumber A, et al. *Cell Chem Biol.* 2017 Mar 16;24(3):371-380.

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

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