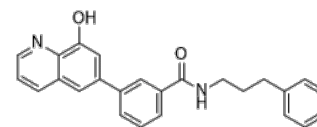


**Product Name** : NCGC00244536  
**Cat. No.** : PC-26937  
**CAS No.** : 2003260-55-5  
**Molecular Formula** : C<sub>25</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 382.46  
**Target** : Histone Demethylase  
**Solubility** : 10 mM in DMSO



## Biological Activity

NCGC00244536 (B3) is a potent, specific lysine demethylase 4B (KDM4B, JMJD2B) inhibitor with an IC<sub>50</sub> of 10 nM, inhibits LNCaP cell growth with IC<sub>50</sub>s in the μM range, shows no or weak activity for KDM5A/JARID1A.

NCGC00244536 (B3) displays much weaker activities against KDM4A, 4C, and 4D.

NCGC00244536 (B3) displays high selectivity for the fast-growing AR-negative PC3 cells (IC<sub>50</sub> 40 nM) and over 100-fold selectivity against the immortalized prostate epithelial cell lines PrEC1 and PrEC4.

NCGC00244536 (B3) effectively inhibits AR-positive cell lines, including LNCaP and VCaP, with IC<sub>50</sub>s in the sub-micromolar range.

NCGC00244536 (B3) is also potent in inhibiting the growth of other cancer cell lines, including the breast cancer cell lines MDA-MB2 and MCF-7, with micromolar IC<sub>50</sub>s.

NCGC00244536 (B3) (20 mg/kg) induces significant inhibition of tumor growth in xenograft model with tumors derived from injection of PC3 cells.

## References

Duan L, et al. Chem Biol. 2015 Sep 17;22(9):1185-96.

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

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