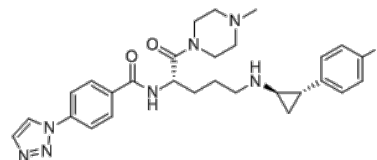


**Product Name** : Bomedemstat  
**Cat. No.** : PC-20255  
**CAS No.** : 1990504-34-1  
**Molecular Formula** : C<sub>28</sub>H<sub>34</sub>FN<sub>7</sub>O<sub>2</sub>  
**Molecular Weight** : 519.63  
**Target** : Histone Demethylase  
**Solubility** : 10 mM in DMSO



## Biological Activity

Bomedemstat (IMG-7289) is a potent, selective, irreversible and orally active **LSD1 (KDM1A)** inhibitor, increases H3K4 and H3K9 methylation.

Bomedemstat (IMG-7289) potentiated responses to PD-1 inhibition in a syngeneic model of SCLC, resulting in increased CD8+ T-cell infiltration and strong tumor growth inhibition.

Bomedemstat (IMG-7289) increased MHC class I expression in mouse SCLC tumor cells in vivo and augmented MHC-I induction by IFN $\gamma$  and increased killing by tumor-specific T cells in cell culture.

Bomedemstat (IMG-7289) inhibits the production of inflammatory cytokines, impairs self-renewal and proliferation of neoplastic stem cells, and shows significant disease-modifying activities in multiple non-clinical models of myelofibrosis.

## References

Jutzi JS, et al. *Hemasphere*. 2018 Jun 8;2(3):e54.

Hiatt JB, et al. *Clin Cancer Res*. 2022 Oct 14;28(20):4551-4564.

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

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