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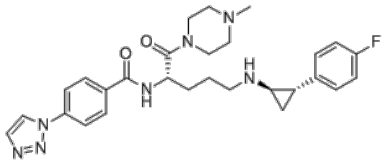
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Bomedemstat
Cat. No.	:	PC-20255
CAS No.	:	1990504-34-1
Molecular Formula	:	$C_{28}H_{34}FN_7O_2$
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 IFNγ 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.

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