# Product Data Sheet

Product Name: Bomedemstat
Cat. No.: GC64865

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 1990504-34-1 | | |
| Formula | C28H34FN7O2 | M.Wt | 519.61 |
| Solubility | DMSO : 100 mg/mL (192.45 mM; Need ultrasonic) | Storage | Store at -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |
| Structure | Bomedemstat | | |

## Background

Bomedemstat (IMG-7289) is an orally active and irreversible inhibitor of the epigenetically active lysine-specific demethylase 1 (LSD1) in mouse models of myeloproliferative neoplasms (MPNs). Bomedemstat can be used for the research of acute myelogenous leukemia (AML) and myelofibrosis (MF). Antineoplastic activity[1].

Bomedemstat (IMG-7289) selectively inhibits proliferation and induces apoptosis of JAK2V617F cells by concomitantly increasing expression and methylation of p53, and, independently, the pro-apoptotic factor PUMA and by decreasing the levels of its antiapoptotic antagonist BCL-XL[1]. Bomedemstat (25 nM, 50 nM) and Ruxolitinib (175 nM) synergize in inhibiting JAK2V617F-driven proliferation[1].Bomedemstat (50 and 100 nM) exerts a pro-apoptotic effect on 3 key regulators of programmed cell death, TP53, BCL-XL, and PUMA[1].

Once-daily treatment with Bomedemstat (IMG-7289; 45 mg/kg) normalizes or improves blood cell counts, reduces spleen volumes, restores normal splenic architecture, and reduces bone marrow fibrosis[1].

[1]. Jonas S Jutzi,et al. LSD1 Inhibition Prolongs Survival in Mouse Models of MPN by Selectively Targeting the Disease Clone. Hemasphere.2018 Jun 8;2(3):e54.


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