

Product Data Sheet

Product Name: PR5-LL-CM01

Cat. No.: GC64941

Chemical Properties

Cas. No. 1005307-86-7

Formula C₂₃H₂₇N₇

M.Wt 401.51

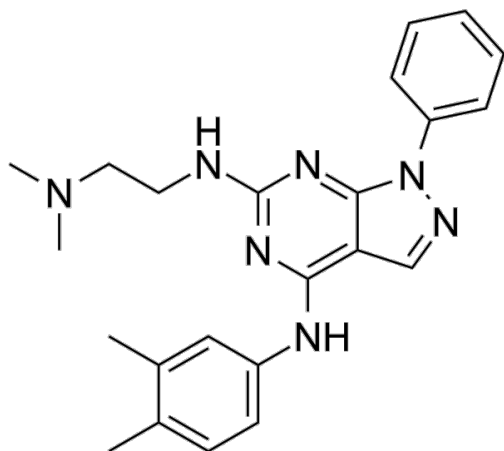
Solubility DMSO : 11.11 mg/mL (27.67 mM; ultrasonic and warming and adjust pH to 3 with HCl and heat to 80°C)

Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



Background

PR5-LL-CM01 is a potent protein arginine methyltransferase 5 (PRMT5) inhibitor (IC₅₀= 7.5 μM). Anti-tumor activities[1].

PR5-LL-CM01 has a range of IC₅₀ at 2-4 μM in PDAC cells (PANC1, MiaPaCa2 and AsPC1, and a range of IC₅₀ at 10-11 μM in CRC cells (HT29, HCT116 and DLD1). PR5-LL-CM01 has higher

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efficacy to specifically inhibit cancer cells and demonstrated low toxicity in normal cells. PR5-LL-CM01 strongly inhibited colony forming ability in both PANC1 and HT29 cells[1]. PR5-LL-CM01 inhibits NF- κ B activation and its target gene expression in PDAC and CRC cells[1]. PR5-LL-CM01 (0-15 μ M) dramatically decreases TNF α and IL8 expression in both PANC1 and HT29 cells[1].

PR5-LL-CM01 (20mg/kg; i.p.; 3 times per week) displays significant anti-tumor effect[1].

[1]. Prabhu L, et al. Adapting AlphaLISA high throughput screen to discover a novel small-molecule inhibitor targeting protein arginine methyltransferase 5 in pancreatic and colorectal cancers. *Oncotarget*. 2017;8(25):39963-39977.

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