

## Product Data Sheet

Product Name: DM-01  
Cat. No.: GC60785

### Chemical Properties

Cas. No. 2355280-00-9

SMILES O=C(C1=C(C)N(CC2=CC=C(C(F)(F)F)C=C2)C=C1C)NCC3=C(C)C=C(C)NC3=O

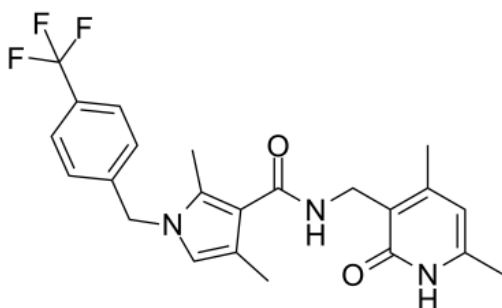
Formula  $C_{23}H_{24}F_3N_3O_2$  M.Wt 431.45

Solubility Storage 4°C, stored under nitroge

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

DM-01 is a powerful and selective EZH2 inhibitor for the research of diffuse large B-cell lymphoma (DLBCL), follicular lymphoma (FL), and SNF5/INI-1/SMARCB1 genetically defined solid tumors[1].

Knockdown EZH2 in A549 cells results in the decrease of cell sensitivity to DM-01 at 50 and 100 µM concentrations. DM-01 also shows comparable inhibitory activity for K562 cells with an IC50 value of 58.706 µµ[1]. DM-01 (5 and 10 µM; 24 hours) strongly inhibits the activity of EZH2 and results in abolished H3K27me expression in K562 cells[1]. DM-01 (5 and 10 µM) also increases the

**Caution: Product has not been fully validated for medical applications. For research use only.**

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transcription expression of DIRAS3 in a dose dependent manner, a tumor suppressor in downstream of EZH2[1]. Cell Viability Assay[1] Cell Line: A549 sh-EV and A549 sh-EZH2 cells

[1]. Qifan Zhou, et al. Design, synthesis and biological activities of pyrrole-3-carboxamide derivatives as EZH2 (enhancer of zeste homologue 2) inhibitors and anticancer agents. New Journal of Chemistry. 10 Jan 2020.

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