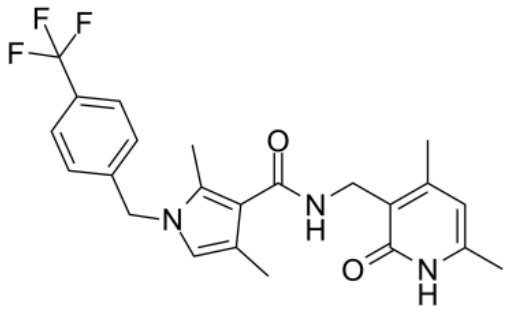
# Product Data Sheet

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

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.