cis-4-Br-2,5-F2-PCPA

| BIOLOGICAL ACT | ΙVITY | |
|---------------------------|---|--|
| Description | cis-4-Br-2,5-F2-PCPA (S1024) is a selective inhibitor of lysine-specific demethylase 1 (LSD1), with a K _i value of 94 nM instead of 8.4 μM for LSD2. There is aberrant expression of LSD1 in cancer stem cells, cis-4-Br-2,5-F2-PCPA inhibits LSD1 cell proliferation and by increasing the level of dimethylated histone H3 at K4 (H3K4) in CCRF-CEM cells ^[1] . | |
| IC ₅₀ & Target | KDM1/LSD1 | |
| In Vitro | cis-4-Br-2,5-F2-PCPA (compound 7c) inhibits proliferation of the T-cell acute lymphoblastic leukemia (T-ALL) with IC₅₀s of 12 μM (CCRF-CEM) and 16 μM (Jurkat), respectively, without inhibiting the human normal fibroblast cell line WI-38^[1]. cis-4-Br-2,5-F2-PCPA (20 μM; 24 h) significantly increases the level of dimethylated H3K4 (H3K4me2), and exerts chemical inhibition on LSD1 and LSD2^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1] | |
| | Cell Line: | T-cell acute lymphoblastic leukemia (T-ALL) |
| | Concentration: | 20 μΜ |
| | Incubation Time: | 24 hours |
| | Result: | Increased the level of dimethylated H3K4 (H3K4me2) 2.9-fold compared with control. |

REFERENCES

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[1]. Hideaki Niwa, et al. Structure–Activity Relationship and In Silico Evaluation of cis- and trans-PCPA-Derived Inhibitors of LSD1 and LSD2. ACS Med. Chem. Lett. 2022.

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

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