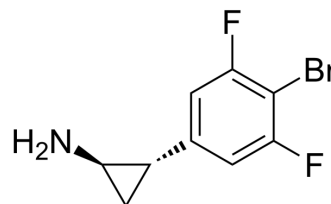


## LSD1/2-IN-4

Cat. No.:	HY-151194
CAS No.:	2821068-09-9
Molecular Formula:	C <sub>9</sub> H <sub>8</sub> BrF <sub>2</sub> N
Molecular Weight:	248.07
Target:	Histone Demethylase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	LSD1/2-IN-4, a PCPA derivative, is an inhibitor of lysine-specific demethylase 1 (LSD1) and lysine-specific demethylase 2 (LSD2). LSD1/2-IN-4 inhibits LSD1 and LSD2 with K <sub>i</sub> values of 0.11 μM and 130 μM, respectively. LSD1/2-IN-4 can be used for the research of several cancers including T-cell acute lymphoblastic leukemia (TALL) <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	KDM1/LSD1
<b>In Vitro</b>	LSD1/2-IN-4 shows strong inhibitory activity against both LSD1 and LSD2 with K <sub>i</sub> values of 0.11 μM and 130 μM, respectively and not inhibits peroxidase with an IC <sub>50</sub> >500 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Hideaki Niwa, et al. Structure–Activity Relationship and In Silico Evaluation of cis- and trans-PCPA-Derived Inhibitors of LSD1 and LSD2. ACS Medicinal Chemistry Letters Article ASAP. DOI: 10.1021/acsmchemlett.2c00294

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

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