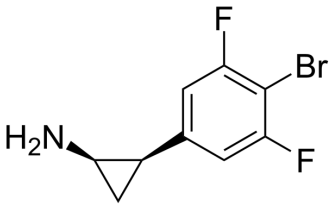
LSD1/2-IN-3

Cat. No.:	HY-151192
Molecular Formula:	$C_9H_8BrF_2N$
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

Description	LSD1/2-IN-3 is a selective inhibitor of lysine-specific demethylase 1 (LSD1), with a K_i value of 11 nM instead of 7 μM for LSD2. There is aberrant expression of LSD1 in cancer stem cells, LSD1/2-IN-1 inhibits LSD1 cell proliferation[1].
IC_{50} & Target	Ki: 11 nM (LSD1); 7 μM (LSD2)[1]
In Vitro	LSD1/2-IN-3 (compound 8c) inhibits proliferation of the T-cell acute lymphoblastic leukemia (T-ALL) with IC_{50}s of 25 μM (CCRF-CEM) and 27 μM (Jurkat), respectively, without inhibiting the human normal fibroblast cell line WI-38[1]. 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 Med. Chem. Lett. 2022.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA