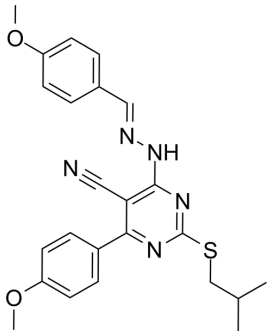
LSD1-IN-21

Cat. No.:	HY-147697
Molecular Formula:	$C_{24}H_{25}N_5O_2S$
Molecular Weight:	447.55
Target:	Histone Demethylase; TNF Receptor
Pathway:	Epigenetics; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LSD1-IN-21 (compound 5a) is a potent and BBB-penetrated LSD1 (Lysine specific demethylase-1) inhibitor, with an IC_{50} of 0.956 μM. LSD1-IN-21 significantly reduces the pro-inflammatory cytokine TNF-α. LSD1-IN-21 shows good anticancer and anti-inflammatory activity[1].
IC_{50} & Target	LSD1 0.956 μM (IC_{50})
In Vitro	LSD1-IN-21 (compound 5a) shows potent anti-cancer activity with GI_{50} values of 0.414 and 0.417 μM against HOP-62 and OVCAR-4 cell lines, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tasneem S, et al. Synthesis, biological evaluation and docking studies of methylene bearing cyanopyrimidine derivatives possessing a hydrazone moiety as potent Lysine specific demethylase-1 (LSD1) inhibitors: A promising anticancer agents. Bioorg Chem. 2022 May 21;126:105885.

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