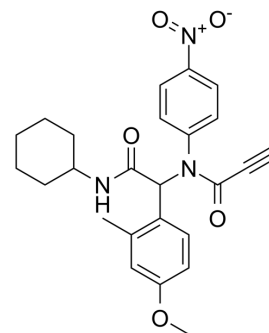


mIDH1-IN-1

Cat. No.:	HY-143234
CAS No.:	2757155-96-5
Molecular Formula:	C ₂₅ H ₂₇ N ₃ O ₅
Molecular Weight:	449.5
Target:	Isocitrate Dehydrogenase (IDH)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	mIDH1-IN-1 (compound 43) is a potent and selective mIDH1 (mutant isocitrate dehydrogenases 1) inhibitor, with an IC ₅₀ of 961.5 nM. mIDH1-IN-1 potently inhibits intracellular 2-HG (2-hydroxyglutarate) production in HT1080 cells, with an EC ₅₀ of 208.6 ± 8.0 nM. mIDH1-IN-1 shows a significant anti-proliferation activity on IDH1 mutant-U-87 cells, with an IC ₅₀ of 41.8 nM. mIDH1-IN-1 is an antitumor agent, and can be used for IDH1 mutated solid tumors research ^[1] .
IC ₅₀ & Target	IC ₅₀ : 961.5 ± 25.3 nM (IDH1 ^{R132H}); EC ₅₀ : 208.6 ± 8.0 nM (2-HG) ^[1]

REFERENCES

[1]. Zhou X, et al. Discovery of linear unnatural peptides as potent mutant isocitrate dehydrogenase 1 inhibitors by Ugi reaction. *Bioorg Chem.* 2022 Feb;119:105569.

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

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