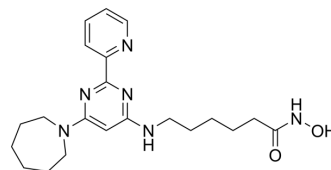


JMJD3/HDAC-IN-1

Cat. No.:	HY-156094
CAS No.:	2883046-06-6
Molecular Formula:	C ₂₁ H ₃₀ N ₆ O ₂
Molecular Weight:	398.5
Target:	HDAC; Histone Demethylase; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	JMJD3/HDAC-IN-1 (compound A5b) is a dual inhibitor targeting Jumonji domain-containing protein demethylase 3 (JMJD3) and histone deacetylase (HDAC1, IC ₅₀ =16 nM). JMJD3/HDAC-IN-1 promotes hypermethylation of histone H3K27 and hyperacetylation of H3K9, and also cleaves caspase-7 and PARP to induce apoptosis. JMJD3/HDAC-IN-1 effectively inhibits cancer cell cloning, migration, and invasion ^[1] .
IC ₅₀ & Target	IC ₅₀ : 16 nM (HDAC1), 534 nM (HDAC6) ^[1]

REFERENCES

[1]. Li A, et al. Design, synthesis and biological evaluation of pyrimidine base hydroxamic acid derivatives as dual JMJD3 and HDAC inhibitors. *Bioorg Med Chem Lett*. 2023 Oct 1;94:129466..

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

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