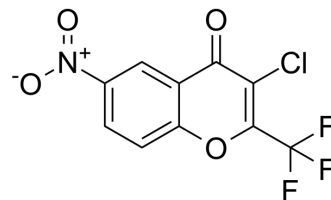


Namoline

Cat. No.:	HY-115747
CAS No.:	342795-11-3
Molecular Formula:	C ₁₀ H ₃ ClF ₃ NO ₄
Molecular Weight:	293.58
Target:	Histone Demethylase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Namoline, a γ -pyrone, is a selective and reversible Lysine-specific demethylase 1 (LSD1) inhibitor with an IC ₅₀ of 51 μ M in a HRP-coupled enzymatic assay. Namoline impairs LSD1 demethylase activity and blocks cell proliferation. Namoline has the potential for androgen-dependent prostate cancer research ^[1] .
In Vitro	Namoline (50 μ M; 24, 48, 72 hours) reduces androgen-induced proliferation of LNCaP cells ^[1] . Namoline (50 μ M) specifically impairs AR agonist R1881-induced (1 nM) demethylation of H3K9me1 and H3K9me2 in LNCaP cells ^[1] . Namoline (50 μ M) does not affect the enzymatic activities of MAOs under these conditions ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Namoline (0.02 mg; ip; daily) severely blunts xenograft tumor growth in nude mice with LNCaP cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dominica Willmann, et al. Impairment of prostate cancer cell growth by a selective and reversible lysine-specific demethylase 1 inhibitor. *Int J Cancer*. 2012 Dec 1;131(11):2704-9.

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