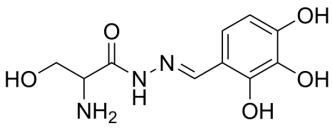
CSRM617

Cat. No.:	HY-122611
CAS No.:	787504-88-5
Molecular Formula:	$C_{10}H_{13}N_3O_5$
Molecular Weight:	255.23
Target:	Androgen Receptor; Apoptosis
Pathway:	Vitamin D Related/Nuclear Receptor; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CSRM617 is a selective small-molecule inhibitor of the transcription factor ONECUT2 (OC2, a master regulator of androgen receptor) with a K_d of 7.43 uM in SPR assays, binding to OC2-HOX domain directly. CSRM617 induces apoptosis by appearance of cleaved Caspase-3 and PARP. CSRM617 is well tolerated in the prostate cancer mouse model[1]
In Vitro	CSRM617 (0.01-100 μM; 48 hours) inhibits cell growth in several PC cell lines: PC-3, 22RV1, LNCaP, C4-2 cells[1]. CSRM617 (10-20 μM; 48 hours) induces apoptosis in 22Rv1 cells results in cell death in a concentration-dependent fashion[1]. CSRM617 (20 μM; 72 hours) induces apoptosis in 22Rv1 cells by appearance of cleaved Caspase-3 and PARP[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rotinen M, et al. ONECUT2 is a targetable master regulator of lethal prostate cancer that suppresses the androgen axis. Nat Med. 2018 Dec;24(12):1887-1898.

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