## WWL0245

®

MedChemExpress

Cat. No.:	HY-153519	
CAS No.:	2869057-11-2	
Molecular Formula:	C <sub>45</sub> H <sub>51</sub> N <sub>11</sub> O <sub>8</sub>	
Molecular Weight:	873.96	
Target:	Epigenetic Reader Domain	
Pathway:	Epigenetics	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTI	VITY	
Description	WWL0245 is a potent and than BRD2/3 and PLK1 ( including AR-positive pr research and a valuable	d seletive BRD4 PROTAC. WWL0245 selectively degrades BRD4 with sub-nanomolar DC <sub>50</sub> (<1 nM) DC <sub>50</sub> >1 $\mu$ M). WWL0245 shows excellent selective cytotoxicity in the BETi sensitive cancer cell lines, ostate cancer cell lines. WWL0245 is a promising drug candidate for AR-positive prostate cancer tool compound to study the biological function of BRD4 <sup>[1]</sup> .
IC <sub>50</sub> & Target	BRD4 1 nM (IC <sub>50</sub> )	
In Vitro	<ul> <li>WWL0245 (0-1 μM; 96h) s</li> <li>M -10 μM. It shows great</li> <li>0.021 μM, 0.053 μM, resp</li> <li>WWL0245 (1 μM; 24 hour</li> <li>VCaP cell lines and resul</li> <li>VCaP cell with DC50 of s</li> <li>effects in c-Myc level<sup>[1]</sup>.</li> <li>WWL0245 (100 nM-1 μM;</li> <li>at various degrees<sup>[1]</sup>.</li> <li>MCE has not independent</li> <li>Cell Proliferation Assay<sup>[1]</sup></li> </ul>	suppresses the proliferation of AR-positive prostate cancer cells with IC <sub>50</sub> values range from 0.0159 µ ter antiproliferative activity to AR-positive cell lines VCaP, LNCaP, 22Rv1 with IC <sub>50</sub> values of 0.016 µM, pectively <sup>[1]</sup> . rs) results in the downregulation of BRD4 and c-Myc in a time-dependent manner in LNCaP, 22Rv1, lts in the decrease of BRD4 level and c-Myc level in a concentration-dependent manner in 22Rv1 and ub-nanomolar. But WWL0245 could also downregulate BRD4 level in DU145 cells but has negligible g 24 hours) suppresses the transcription of AR-regulated genes (PSA, TMPRSS2, ERG, FKBP5, BMPR1B) ntly confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	HL60, SU-DHL-6, RS4;11, JURKAT, A2780, MDA-MB-468, BT549, LNCaP, 22Rv1, and VCaP cells
	Concentration:	0 μΜ -10 μΜ
	Incubation Time:	96 h
	Result:	Inhibited HL60, SU-DHL-6, RS4;11, JURKAT, A2780, MDA-MB-468, BT549, LNCaP, 22Rv1, and VCaP growth with IC <sub>50</sub> values of 0.0961, 0.0734, 0.0247, 0.5018, 0.0153, 0.2460, and 0.1732 $\mu$ M, respectively[1].
	Western Blot Analysis <sup>[1]</sup>	

Cell Line:

Prostate cancer cell lines: LNCaP, 22Rv1, VCaP, DU145

## **Product** Data Sheet

Concentration:	1 nM, 10 nM, 100 nM, 1000 nM, 10000 nM
Incubation Time:	1 hour, 2 hours, 4 hours, 12 hours, 24 hours, 48 hours
Result:	Resulted in the downregulation of BRD4 and c-Myc in a time/concentration-depend manner in 22Rv1 and VCaP cells.
RT-PCR <sup>[1]</sup>	
Cell Line:	Prostate cancer: VCaP cell
Concentration:	100 nM-1 μM
Incubation Time:	24 h

## REFERENCES

[1]. Rong Hu, et al. Identification of a selective BRD4 PROTAC with potent antiproliferative effects in AR-positive prostate cancer based on a dual BET/PLK1 inhibitor. Eur J Med Chem. 2022 Jan 5;227:113922.

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

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