LLP-3

®

MedChemExpress

Cat. No.:	HY-125964	
CAS No.:	1453835-43-2	Q ↓
Molecular Formula:	C ₃₂ H ₂₃ ClN ₂ O ₄	
Molecular Weight:	534.99	С ОН
Target:	Survivin	0
Pathway:	Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV			
Description		inhibitor that disrupts the Survivin-Ran interaction in cancer cells. LLP-3 can be used in the multiforme (GBM) ^[1] .	
IC₅₀ & Target	Survivin ^[1]		
In Vitro	LLP-3 (20 μM, 24 h) impaires the binding of Survivin to Smac/DIABLO (proapoptotic protein), without affecting the interaction of Survivin with other chromosomal passenger complex (CPC) proteins ^[1] . LLP-3 (20 μM, 24 h) decreases the Survivin-Ran interaction in U87 cells ^[1] . LLP-3 (20 μM, 24 h) arrests cell in G0-G1 phase and subsequent tumor cell death ^[1] . LLP-3 (20 μM, 24 h) triggers caspase-dependent apoptosis in HT1080 cells ^[1] . LLP-3 (0-100 μM, 72 h) inhibits tumor cells survival by p53-mediated inhibition ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]		
	Cell Line:	U87E6, U87MG cell	
	Concentration:	0-100 μΜ	
	Incubation Time:	72 h	
	Result:	Inhibited tumor cells survival with IC $_{50}$ values of 13.6 μM (U87E6) and 38.1 μM (U87MG).	
	Cell Cycle Analysis ^[1]		
	Cell Line:	U87 cells	
	Concentration:	20 µМ	
	Incubation Time:	24 h	
	Result:	Reduced the proportions of cells in the S and G2-M phases (from 9% to 5%, and from 25% to 17%, respectively). Increased G0-G1 cell population (from 60% to 74%).	

	Cell Line:	U87, HT1080 cells
	Concentration:	40 μΜ
	Incubation Time:	24 h
	Result:	Weakened the colocalization of TPX2 with the acetylated α -tubulin.
In Vivo		njection, 25 mg/kg, for 10 days) prolongs survival of GBM sphere-derived tumor mice ^[1] . Intly confirmed the accuracy of these methods. They are for reference only.
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REFERENCES

[1]. Hacer Guvenc, et al. Impairment of glioma stem cell survival and growth by a novel inhibitor for Survivin-Ran protein complex. Clin Cancer Res. 2013 Feb 1;19(3):631-42.

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

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