Salviolone

Cat. No.:	HY-122506	
CAS No.:	119400-86-1	\sim
Molecular Formula:	C ₁₈ H ₂₀ O ₂	HQ
Molecular Weight:	268.35	
Target:	STAT	0≓(
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt	
Storage:	-20°C, protect from light	, ,
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)	

Product Data Sheet

BIOLOGICAL ACTIV			
Description	Salviolone is a natural diterpenoid derivative that can against melanoma cells. Salviolone exhibits a pleiotropic effect against melanoma by hampering cell cycle progression, STAT3 signaling, and malignant phenotype of A375 melanoma cells ^[1] .		
In Vitro	Salviolone (5-60 μM; 72 hours) reduces cell viability in the A375 and MeWo melanoma cell lines with EC ₅₀ values of 17 μM and 22 μM, respectively. Salviolone does not affect the growth of normal melanocytes ^[1] . Salviolone (20 μM; 48-72 hours) strongly reduces pRb, pCdk2, and cyclin A2, Tyr705-STAT3 phosphorylation expression levels in A375 cells. Salviolone also strongly increases the P21 and P53 protein expression level. Salviolone induces sustained activation of the phosphorylation of ERK1/2 and Akt ^[1] . Salviolone (10-20 μM) inhibits MMP2 gelatinase activity in the A375 melanoma cell line ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]		
	Cell Line:	A375, MeWo melanoma cells, and NHEM cells	
	Concentration:	5 μΜ, 10 μΜ, 20 μΜ, 30 μΜ, 40 μΜ, 50 μΜ, 60 μΜ	
	Incubation Time:	72 hours	
	Result:	Impaired the viability of melanoma cells without affecting the growth of normal melanocytes.	
	Western Blot Analysis ^[1]		
	Cell Line:	A375 cells	
	Concentration:	20 μΜ	
	Incubation Time:	48 hours, 72 hours	
	Result:	Reduced the expression of the active forms of Cdk2 (pCdk2) and cyclin A2, and the phosphorylation of Rb.	

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REFERENCES

[1]. Valentina Zanrè, et al. Salviolone from Salvia miltiorrhiza Roots Impairs Cell Cycle Progression, Colony Formation, and Metalloproteinase-2 Activity in A375 Melanoma Cells: Involvement of P21(Cip1/Waf1) Expression and STAT3 Phosphorylation. Int J Mol Sci. 2022 Jan 20;23(3):1121.

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

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