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Product Data Sheet

HI5

Discription HIS is a potent tublin and IDO inhibitor, with an ICs ₀ value of 70 nM in HeLa cells. HIS inhibit IDO expression and decrease kynurenine production, leading to stimulating T cells activation and proliferation. HIS can inhibit tubulin polymerization and cause reactive oxidative stress generation in HeLa cells. HIS can be used for researching anticancer ¹¹ . IC ₅₀ : & Target IC ₅₀ : 70 nM in HeLa ^[1] In Vitro HIS (0-10 µM; 72 hours) exhibits potent antiproliferative activity in HeLa, PC-3, A549 and HUVEC ^[1] . HIS (0.1 and 0.5 µM; 24 hours) significantly up-regulates the expression level of Bax protein, while down-regulates the protein of Bcl-2, furthermore, markedly up-regulates the protein expressions of caspase-3 and PARP ^[1] . HIS (0.5 µM; 24 hours) significantly up-regulates the expression level of Bax protein, while down-regulates the protein of Bcl-2, furthermore, markedly up-regulates the protein expressions of caspase-3 and PARP ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay Cell Line: HeLa, PC-3, A549 and HUVEC ^[1] Concentration: 0-10 µM Incubation Time: 72 hours Result: Exhibited potent antiproliferative activity in HeLa, PC-3, A549 and HUVEC with IC ₅₀ s of 0.07 ± 0.005 µM, 0.46 ± 0.06 µM, 0.22 ± 0.10 µM, 1.52 ± 0.09 µM, respectively. Immunofluorescence Cell Line: HeLa ^[1] Concentration: 0.1 and 0.5 µM Incubation T	BIOLOGICAL ACTIV			
In Vitro HI5 (0-10 μM; 72 hours) exhibits potent antiproliferative activity in HeLa, PC-3, A549 and HUVEC ^[1] . HI5 (0.1 and 0.5 μM; 24 hours) exhibits markedly disruption of microtubule organization in a concentration-dependent manner ^[1] . HI5 (0.1 and 0.5 μM; 24 hours) significantly up-regulates the expression level of Bax protein, while down-regulates the protein of BcL-2, furthermore, markedly up-regulates the protein expressions of caspase-3 and PARP ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Line: HeLa, PC-3, A549 and HUVEC ^[1] Concentration: 0-10 μM Incubation Time: 72 hours Result: Exhibited potent antiproliferative activity in HeLa, PC-3, A549 and HUVEC with IC ₅₀ s of 0.07 ± 0.005 μM, 0.46 ± 0.06 μM, 0.22 ± 0.10 μM, 1.52 ± 0.09 μM, respectively. Immunofluorescence Cell Line: HeLa ^[1] Concentration: 0.1 and 0.5 μM Incubation Time: 24 hours Result: Exhibited markedly disruption of microtubule organization in a concentration-dependent		HI5 is a potent tublin and IDO inhibitor, with an IC ₅₀ value of 70 nM in HeLa cells. HI5 inhibit IDO expression and decrease kynurenine production, leading to stimulating T cells activation and proliferation. HI5 can inhibit tubulin polymerization and cell migration, cause G2/M phase arrest, and induce apoptosis via the mitochondrial dependent apoptosis pathway and		
HI5 (0.1 and 0.5 μM; 24 hours) exhibits markedly disruption of microtubule organization in a concentration-dependent manner ^[1] . HI5 (0.5 μM; 24 hours) significantly up-regulates the expression level of Bax protein, while down-regulates the protein of Bcl-2, furthermore, markedly up-regulates the protein expressions of caspase-3 and PARP ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay Cell Line: HeLa, PC-3, A549 and HUVEC ^[1] Concentration: 0-10 μM Incubation Time: 72 hours Result: Exhibited potent antiproliferative activity in HeLa, PC-3, A549 and HUVEC with IC ₅₀ s of 0.07 ± 0.005 μM, 0.46 ± 0.06 μM, 0.22 ± 0.10 μM, 1.52 ± 0.09 μM, respectively. Immunofluorescence Cell Line: Cell Line: HeLa ^[1] Concentration: 0.1 and 0.5 μM Incubation Time: 24 hours Result: Exhibited markedly disruption of microtubule organization in a concentration-dependent	IC ₅₀ & Target	IC ₅₀ : 70 nM in HeLa ^[1]		
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Incubation Time: 24 hours Result: Exhibited markedly disruption of microtubule organization in a concentration-dependent		Cell Line:	HeLa ^[1]	
Result: Exhibited markedly disruption of microtubule organization in a concentration-dependent		Concentration:	0.1 and 0.5 μM	
		Incubation Time:	24 hours	
		Result:		

	Western Blot Analysis	Western Blot Analysis		
	Cell Line:	HeLa ^[1]		
	Concentration:	0.5 μΜ		
	Incubation Time:	24 hours		
	Result:	Significantly up-regulated the expression level of Bax protein, while down-regulated the protein of Bcl-2, furthermore, markedly up-regulated the protein expressions of caspase-3 and PARP.		
In Vivo	HI5 (15 and 30 mg/kg; 1)	HI5 (15 and 30 mg/kg; IV; daily, for 21 days) significantly inhibits tumor growth at a dose-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	MCE has not independe	ently confirmed the accuracy of these methods. They are for reference only.		
	MCE has not independe Animal Model:	ently confirmed the accuracy of these methods. They are for reference only. BALB/c nude mice (18-22 g, 5 week-old, injected with HeLa cells) ^[1]		

REFERENCES

[1]. Hua S, et al. Dual-functional conjugates improving cancer immunochemotherapy by inhibiting tubulin polymerization and indoleamine-2,3-dioxygenase. Eur J Med Chem. 2020;189:112041.

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

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