Sulindac sodium

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Cat. No.:	HY-B0008A	
CAS No.:	63804-15-9	F
Molecular Formula:	C ₂₀ H ₁₆ FNaO ₃ S	
Molecular Weight:	378.39	0
Target:	NF-κB; PD-1/PD-L1	ÓNa (
Pathway:	NF-κB; Immunology/Inflammation	Š Š
Storage:	Please store the product under the recommended conditions in the Certificate of	<u> </u>
	Analysis.	

Product Data Sheet

Description	Sulindac (MK-231) is an orally active nonsteroidal anti-inflammatory agent. Sulindac also is an immunomodulatory agent. Sulindac can be used for the research of arthritis of the spine, gouty arthritis and kinds of cancer including colorectal cancer (CRC) and lung cancer ^{[1][2]} .				
In Vitro	Sulindac (MK-231) (500 μM, 44 epithelial marker, E-cadherin Sulindac sodium (500 μM, 48 Sulindac sodium (500 μM, 48 promoted TGF-β1-induced Ef MCE has not independently c Western Blot Analysis ^[1]	8 h) sodium is effective in preventing TGF-β1-induced EMT, as indicated by upregulation of the , and downregulation of mesenchymal markers and transcription factors ^[1] . h) can inhibit TGF-β1-enhanced migration and invasion of A549 cells ^[1] . h) enhances the reversal of TGF-β1-induced EMT by sulindac (sodium) and SIRT1 upregulation MT ^[1] . onfirmed the accuracy of these methods. They are for reference only.			
	Cell Line:	A549 cells			
	Concentration:	500 μΜ			
	Incubation Time:	48 h			
	Result:	Inhibit transforming growth factor (TGF)-β1-induced epithelial-mesenchymal transition in A549 cells.			
	Immunofluorescence ^[1]				
	Cell Line:	A549 cells			
	Concentration:	500 μΜ			
	Incubation Time:	48 h			
	Result:	Reversed SIRT-1 expression by TGF- β 1 and inhibited the TGF- β 1-induced cadherin switch.			
	Cell Migration Assay ^[1]				
	Cell Line:	A549 cells			

	Concentration:	500 μΜ		
	Incubation Time:	48 h		
	Result:	Inhibited migration, decreased resistance co-treatment with TGF-β1.		
	Cell Invasion Assay ^[1]	Cell Invasion Assay ^[1]		
	Cell Line:	A549 cells		
	Concentration:	500 μM		
	Incubation Time:	40 h; 48 h		
	Result:	Could effectively inhibit the TGF- $\beta 1\mbox{-}induced$ increase in invasion by lung cancer cells.		
In Vivo	Sulindac (MK-231) sodium shows a significant reduct treated with combination Sulindac sodium (15 mg/k downregulate PD-L1 by bl Sulindac sodium (15 mg/k increased availability of P Sulindac sodium has not a MCE has not independent	Sulindac (MK-231) sodium (15 mg/kg, p.o., bid (sulindac alone); 7.5 mg/kg p.o., bid (sulindac combination with PD-L1)) shows a significant reduction in tumor volume and increases infiltration of CD8+ T lymphocytes in the tumor tissues when treated with combination therapy ^[2] . Sulindac sodium (15 mg/kg, p.o., bid (sulindac alone); 7.5 mg/kg p.o., bid (sulindac combination with PD-L1)) can downregulate PD-L1 by blocking NF-κB signaling, which in turn led to a decrease in exosomal P ^[2] . Sulindac sodium (15 mg/kg, p.o., bid (sulindac alone); 7.5 mg/kg p.o., bid (sulindac combination with PD-L1)) leads to increased availability of PD-L1 Ab by downregulating PD-L1 in combination therapy ^[2] . Sulindac sodium has not a systemic inhibitory effect on prostaglandin E2 (PGE2) in low-dose does ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	CT26 syngeneic mouse tumor model ^[2]		
	Dosage:	15 mg/kg; 7.5 mg/kg		
	Administration:	15 mg/kg, p.o., bid (sulindac alone); 7.5 mg/kg p.o., bid (sulindac combination with PD-L1)		
	Result:	Downregulated PD-L1 through the blockade of NF-кB signaling and modulate the response of pMMR CRC to anti-PD-L1 immunotherapy.		
	Animal Model:	CT26 syngeneic mouse tumor model ^[2]		
	Dosage:	15 mg/kg; 7.5 mg/kg		
	Administration:	15 mg/kg, p.o., bid (sulindac alone); 7.5 mg/kg p.o., bid (sulindac combination with PD-L1)		
	Result:	Downregulated PD-L1 through the blockade of NF-кB signaling and modulate the response of pMMR CRC to anti-PD-L1 immunotherapy. Cound effectively inhibit PD-L1 with no significant systematic toxicity.		

REFERENCES

[1]. Byong-Ki Cha, et al. Celecoxib and sulindac inhibit TGF- β 1-induced epithelial-mesenchymal transition and suppress lung cancer migration and invasion via downregulation of sirtuin 1. Oncotarget. 2016 Aug 30;7(35):57213-57227.

[2]. Bin Yi, et al. Sulindac Modulates the Response of Proficient MMR Colorectal Cancer to Anti-PD-L1 Immunotherapy. Mol Cancer Ther. 2021 Jul;20(7):1295-1304.

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

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