Balsalazide

®

MedChemExpress

Cat. No.:	HY-B0667		
CAS No.:	80573-04-2		
Molecular Formula:	C ₁₇ H ₁₅ N ₃ O ₆		
Molecular Weight:	357.32		
Target:	Interleukin Related; STAT		
Pathway:	Immunology/Inflammation; JAK/STAT Signaling; Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

Preparing Stock Solutions	1M NaOH : 50 mg/mL (1	39.93 mM; ultrasonic and adjust p Solvent Mass Concentration	H to 12 with NaOH)	5 mg	10 mg		
		1 mM	2.7986 mL	13.9931 mL	27.9861 mL		
	Stock Solutions	5 mM	0.5597 mL	2.7986 mL	5.5972 mL		
	10 mM	0.2799 mL	1.3993 mL	2.7986 mL			
	Please refer to the solu	Please refer to the solubility information to select the appropriate solvent.					
In Vivo		e by one: 10% DMSO >> 40% PEC mL (7.00 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline			
		ne by one: 10% DMSO >> 90% (20 mL (7.00 mM); Clear solution	% SBE-β-CD in saline)				

BIOLOGICAL ACTIV				
Description	Balsalazide could suppress colitis-associated carcinogenesis through modulation of IL-6/STAT3 pathway.			
IC ₅₀ & Target	IL-6	IL-1	STAT3	
In Vivo	At the endpoint, the protein production of MIP-1β, MCP-1, IL-6, and IL-10 in the colon tissues decrease in concordance with the plasma concentrations of the cytokines. The drug-treated groups reveal lower expression of p-STAT3 compared to the CAC group. In addition, BCL2 decreases and BAX increases markedly in the BSZ+VSL#3 group ^[1] . Balsalazide is a new 5- aminosalicylic acid (5-ASA) containing prodrug ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet

PROTOCOL	
Animal Administration ^[1]	Mice ^[1] C57B/L6J mice are randomly divided into four groups: CAC group, Balsalazide (BSZ) group (300 mg/kg), VSL#3 group, and BSZ+VSL#3 group. After two weeks, the AOM/DSS model is induced by AOM injection followed by two cycles of 2% DSS ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Do EJ, et al. Suppression of colitis-associated carcinogenesis through modulation of IL-6/STAT3 pathway by balsalazide and VSL#3. J Gastroenterol Hepatol. 2016 Aug;31(8):1453-61.

[2]. Kruis W, et al. Low dose balsalazide (1.5 g twice daily) and mesalazine (0.5 g three times daily) maintained remission of ulcerative colitis but high dose balsalazide (3.0 g twice daily) was superior in preventing relapses. Gut, 2001. 49(6): p. 783-789.

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

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