## Anti-inflammatory agent 36

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®

Cat. No.:	HY-148553		
CAS No.:	2293951-01-4		
Molecular Formula:	C <sub>25</sub> H <sub>27</sub> NO <sub>7</sub>		
Molecular Weight:	453.48		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
Preparing Stock Solutio	Preparing Stock Solutions	1 mM	2.2052 mL	11.0258 mL	22.0517 mL	
		5 mM	0.4410 mL	2.2052 mL	4.4103 mL	
		10 mM	0.2205 mL	1.1026 mL	2.2052 mL	
	Please refer to the solubility information to select the appropriate solvent.					

<b>BIOLOGICAL ACTIV</b>			
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Description	Anti-inflammatory agent 36 is an anti-inflammatory agent. Anti-inflammatory agent 36 inhibits LPS-induced macrophage activation <sup>[1]</sup> .		
In Vitro	Anti-inflammatory agent 36 (Compound 5a28) (2.5-20 $\mu$ M) inhibits LPS-induced release of TNF- $\alpha$ and IL-6 in active RAW 264.7 mouse macrophages, with IC <sub>50</sub> s of 3.69 and 3.68 $\mu$ M for TNF- $\alpha$ and IL-6 <sup>[1]</sup> .Anti-inflammatory agent 36 (10 $\mu$ M, 0.5 h) inhibits LPS-induced P-P38 and P-ERK in RAW 264.7 mouse macrophages <sup>[1]</sup> .Anti-inflammatory agent 36 (10 $\mu$ M, 0.5 h) inhibits LPS-induced the transcription of TNF- $\alpha$ , IL-6, IL-1 $\beta$ , ICAM-1 and VCAM-1 <sup>[1]</sup> .MCE has not independently confirmed the accuracy of these methods. They are for reference only.Western Blot Analysis <sup>[1]</sup> Cell Line:RAW 264.7 mouse macrophages		

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	Concentration:	10 μΜ		
	Incubation Time:	0.5 h		
	Result:	Markedly inhibited P-P38 and P-ERK, indicating the suppression of MAPK signaling.		
n Vivo		Anti-inflammatory agent 36 (Compound 5a28) (10 mg/kg, i.p.) inhibits inflammation in acute lung injury mouse model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Dosage:	10 mg/kg		
	Administration:	i.p.		
	Result:	Reduced wet/dry weight ratio of the mice lungs. Reduced biomarkers of lymphocytes and macrophages.		

## REFERENCES

[1]. Qian J, et al. Design and synthesis novel di-carbonyl analogs of curcumin (DACs) act as potent anti-inflammatory agents against LPS-induced acute lung injury (ALI). Eur J Med Chem. 2019 Apr 1;167:414-425.

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

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