## Product Data Sheet

## Anti-inflammatory agent 17

Cat. No.:HY-146547CAS No.:2763226-84-0Molecular Formula: $C_{20}H_{23}NO_5$ Molecular Weight:357.4Target:Interleukin Related; TNF ReceptorPathway:Immunology/Inflammation; ApoptosisStorage:Please store the product under the recommended conditions in the Certificate of Analysis.	N O O O O O O O O O O O O O O O O O O O
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Description	Anti-inflammatory agent 17 is a potent and orally active anti-inflammatory agent. Anti-inflammatory agent 17 inhibits the release of IL-6 and TNF- $\alpha$ in vitro experiments without cytotoxicity. Anti-inflammatory agent 17 exhibits anti-inflammatory activity in vivo. Anti-inflammatory agent 17 has the potential for the research of Acute lung injury (ALI) <sup>[1]</sup> .		
IC <sub>50</sub> & Target	TNF-α 2.576 μΜ (IC <sub>50</sub> )	IL-6 8.254 μΜ (IC <sub>50</sub> )	
In Vitro	Anti-inflammatory agent 17 (compound 5b) (10 $\mu$ M; 24 h) displays no toxicity in J774a.1 cells <sup>[1]</sup> . Anti-inflammatory agent 17 (1.25, 2.5, 5, 10 $\mu$ M; 2 h) inhibits the production of IL-6 (IC <sub>50</sub> =8.254 $\mu$ M) and TNF- $\alpha$ (IC <sub>50</sub> =2.576 $\mu$ M) in J774a.1 cells in a dose-dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>		
	Cell Line:	J774a.1 cells	
	Concentration:	10 μΜ	
	Incubation Time:	24 h	
	Result:	Displayed no toxicity in J774a.1 cells.	
	Immunofluorescence <sup>[1]</sup>		
	Cell Line:	J774A.1 cells	
	Concentration:	1.25, 2.5, 5, 10 μM	
	Incubation Time:	2 h	
	Result:	Inhibited the production of IL-6 (IC_{50}=8.254 $\mu M)$ and TNF- $\alpha$ (IC_{50}=2.576 $\mu M)$ in J774a.1 cells in a dose-dependent manner.	
In Vivo	Anti-inflammatory agent 17 induced ALI in mice <sup>[1]</sup> . MCE has not independently	(20 mg/kg; intragastric administration) exhibits protective effect on LPS (lipopolysaccharide)- confirmed the accuracy of these methods. They are for reference only.	

Animal Model:	C57/BL6 mice <sup>[1]</sup>
Dosage:	20 mg/kg
Administration:	Intragastric administration
Result:	Exhibited protective effect on LPS-induced ALI in mice.

## REFERENCES

[1]. Wang X,et al. Design, synthesis and bioactivity evaluation of fisetin derivatives as potential anti-inflammatory agents against LPS-induced acute lung injury. Bioorg Med Chem. 2021; 49:116456.

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

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