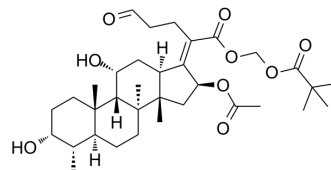


## WU-FA-01

<b>Cat. No.:</b>	HY-153429		
<b>CAS No.:</b>	882429-53-0		
<b>Molecular Formula:</b>	C <sub>34</sub> H <sub>52</sub> O <sub>9</sub>		
<b>Molecular Weight:</b>	604.77		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	WU-FA-01, a hydrogenated derivative of WU-FA-00, is an antibacterial agent that exhibits high levels of antibacterial activity against Gram-positive strains and also has some anti-inflammatory activity <sup>[1]</sup> .								
<b>In Vitro</b>	WU-FA-01 (0-25 µg/mL, 24 h) has a dose-dependent inhibitory effect on Gram-positive bacteria, but has no inhibitory effect on Gram-negative strains <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
<b>In Vivo</b>	WU-FA-01 (2000-8000µg/mL) has a dose-dependent inhibitory effect on TPA-induced edema in mouse ear models, and can effectively protect TPA-induced skin inflammation <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>TPA-induced skin inflammation in female Kunming mice<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>2000, 4000 and 8000 µg/mL</td> </tr> <tr> <td>Administration:</td> <td>20 µL of acetone-loaded agent topically applied to the right ear</td> </tr> <tr> <td>Result:</td> <td>Significantly reduced TPA-induced ear edema by 48.16%, 113.97% and 137.32%, respectively, at concentrations of 2000, 4000 and 8000 µg/mL.</td> </tr> </table>	Animal Model:	TPA-induced skin inflammation in female Kunming mice <sup>[1]</sup>	Dosage:	2000, 4000 and 8000 µg/mL	Administration:	20 µL of acetone-loaded agent topically applied to the right ear	Result:	Significantly reduced TPA-induced ear edema by 48.16%, 113.97% and 137.32%, respectively, at concentrations of 2000, 4000 and 8000 µg/mL.
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### REFERENCES

[1]. Pan-Pan Wu, et al. The biological evaluation of fusidic acid and its hydrogenation derivative as antimicrobial and anti-inflammatory agents. *Infect Drug Resist.* 2018 Oct 24;11:1945-1957.

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

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