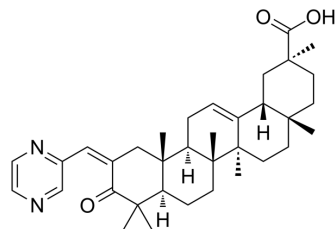


## Antibacterial agent 115

Cat. No.:	HY-150002
CAS No.:	2259732-60-8
Molecular Formula:	C <sub>35</sub> H <sub>48</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	544.77
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Antibacterial agent 115 (Compound 10) is an orally active antibacterial and anti-inflammatory agent <sup>[1]</sup> .								
<b>In Vitro</b>	Antibacterial agent 115 (Compound 10) shows antibacterial activity with MIC values of both 2.72 µg/mL against <i>Staphylococcus aureus</i> subsp. <i>aureus</i> (ATCC 29213), <i>Staphylococcus epidermidis</i> (ATCC 12228) and <i>Staphylococcus aureus</i> (ATCC 6538) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
<b>In Vivo</b>	Antibacterial agent 115 (Compound 10) (0-40 mg/kg; i.g.; seven consecutive days) shows anti-inflammatory activity <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>Kunming female mice (body weight 18–22 g), 12-O-tetradecylphorbol-13- acetate (TPA) induced ear edema mice model<sup>[1]</sup>.</td> </tr> <tr> <td>Dosage:</td> <td>10, 20, 40 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Gavage, seven consecutive days</td> </tr> <tr> <td>Result:</td> <td>Inhibited swelling of mouse ears and inhibited the expression of TNF-α, IL-1β and p65.</td> </tr> </table>	Animal Model:	Kunming female mice (body weight 18–22 g), 12-O-tetradecylphorbol-13- acetate (TPA) induced ear edema mice model <sup>[1]</sup> .	Dosage:	10, 20, 40 mg/kg	Administration:	Gavage, seven consecutive days	Result:	Inhibited swelling of mouse ears and inhibited the expression of TNF-α, IL-1β and p65.
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### REFERENCES

[1]. Yang Y, et al. Synthesis, anti-microbial and anti-inflammatory activities of 18β-glycyrrhetic acid derivatives. *Bioorg Chem.* 2020 Aug;101:103985.

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

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