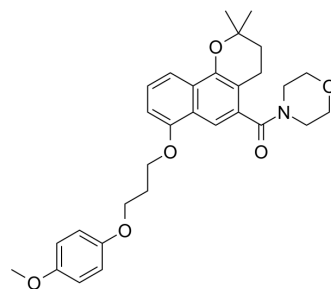


## AcrB-IN-2

<b>Cat. No.:</b>	HY-149810
<b>CAS No.:</b>	2890177-90-7
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>35</sub> NO <sub>6</sub>
<b>Molecular Weight:</b>	505.6
<b>Target:</b>	Bacterial; Parasite
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	AcrB-IN-2 is an AcrB efflux pump inhibitor, with ability to potentiate the effect of antibiotics. AcrB-IN-22 inhibits Nile Red (a known substrate of AcrB) efflux. AcrB-IN-2 does not disrupts the bacterial outer membrane nor display toxicity in a nematode model <sup>[1]</sup> .
<b>In Vitro</b>	AcrB-IN-2 (compound G6) (8-128 µg/mL) shows outstanding antibacterial synergism with at least one of the antibiotics (ERY, LEV and MIN). AcrB-IN-2 show antibacterial synergism with MIN, and reduces the MIC value of MIN by 4-fold at 64 µg/mL <sup>[1]</sup> . AcrB-IN-2 (50 µM, 100 µM) shows strong inhibitory activity at the lowest concentration of 50 µM, to inhibit Nile Red efflux <sup>[1]</sup> . AcrB-IN-2 (4-256 µg/mL) does not cause hemolysis of mice red blood cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	AcrB-IN-2 (compound G6) (128 µg/mL; 72 h) shows no significant and in vivo toxicity against Caenorhabditis elegans <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Guo T, et al. Design and synthesis of benzochromene derivatives as AcrB inhibitors for the reversal of bacterial multidrug resistance. Eur J Med Chem. 2023 Mar 5;249:115148.

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

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