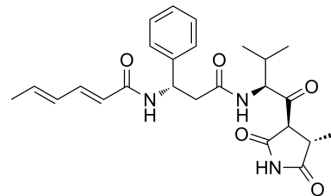


## Moiramide B

Cat. No.:	HY-16943
CAS No.:	155233-31-1
Molecular Formula:	C <sub>25</sub> H <sub>31</sub> N <sub>3</sub> O <sub>5</sub>
Molecular Weight:	453.53
Target:	Bacterial; Acetyl-CoA Carboxylase
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Moiramide B is a potent acetyl-CoA carboxylase (ACC) inhibitor with an IC <sub>50</sub> value of 6 nM. Moiramide B has antibacterial activity <sup>[1]</sup> .
<b>In Vitro</b>	Moiramide B (compound 3; 0.012-25 μM; E. coli) has antibacterial activity with MIC values of >25, 3.13, 25, 0.39, 1.56, 0.1 μM for WT, WT+ PMBN, ΔacrAB, ΔacrAB+PMBN, ΔtolC, and ΔtolC+ PMBN, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Cifone MT, et, al. Heterobivalent Inhibitors of Acetyl-CoA Carboxylase: Drug Target Residence Time and Time-Dependent Antibacterial Activity. J Med Chem. 2022 Dec 22;65(24):16510-16525.

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

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