## COE-PNH2

Cat. No.:	HY-158003	
Molecular Formula:	C <sub>54</sub> H <sub>98</sub> Cl <sub>8</sub> N <sub>8</sub> O <sub>4</sub>	
Molecular Weight:	1207.03	CI. CI. CI.
Target:	Bacterial	<u> </u>
Pathway:	Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

<b>BIOLOGICAL ACTIV</b>	ІТҮ ———		
Description	COE-PNH2 exhibits antibacterial activity against Mycobacterium abscessus (Mab) with MIC <sub>90</sub> of 26 μM. COE-PNH2 affects the integrity of the bacterial envelope and mycomembrane. COE-PNH2 reveals intracelluar penetration without mitochondrial toxicity <sup>[1]</sup> .		
In Vitro	COE-PNH2 (0-128 μg/mL) exhibits a stable antibacterial activity and extreme antibiotic tolerance against intracellular, replicating and nutrient-starved, non-replicating Mab <sup>[1]</sup> . COE-PNH2 exhibits a low propensity for resistance development with consistent MIC values in 14 passages of Mab <sup>[1]</sup> . COE-PNH2 (0-64 μg/mL) induces a depletion of ATP, accumulation of intracellular lipid inclusions (ILIs) and bacterial elongation in Mab <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	COE-PNH2 (2.5-5 mg/kg, intratracheal, every other day for 12 days) exhibits well tolerance and efficiency in acute lung infection in C3HeB/FeJ mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Acute lung infection in C3HeB/FeJ mice <sup>[1]</sup>	
	Dosage:	2.5-5 mg/kg	
	Administration:	Intratracheal administration every other day for 12 days	
	Result:	Reduced the colony-forming units (CFU) and bacilli in lung without weight loss.	

## REFERENCES

[1]. Zhang K, et al., An anti-mycobacterial conjugated oligoelectrolyte effective against Mycobacterium abscessus. Sci Transl Med. 2024 Feb 21;16(735):eadi7558.

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Proteins

Product Data Sheet



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

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