
Product Name	: CNI103	Dcn-Tle-Ile-Hva-Ile-Thr-Gln-His-Ieu-Ser-miniPEG-Lys-CPP9
Cat. No.	: PC-72016	
CAS No.	: 2366279-86-7	
Molecular Formula	: C ₁₁₆ H ₁₈₀ Cl ₂ N ₃₆ O ₂₆	
Molecular Weight	: 2565.80	
Target	: Other Targets	
Solubility	: 10 mM in DMSO	

Biological Activity

CNI103 (CNI-103) is a highly potent, cell-permeable, metabolically stable peptidyl inhibitor of **Calcineurin-NFAT** interaction with KD 16 nM and IC₅₀ of 220 nM.

CNI103 selectively blocks the interaction between calcineurin and NFATc3, specifically inhibits calcineurin signaling in vitro and in vivo.

CNI103 exhibits a favorable pharmacokinetic profile, broad tissue distribution following different routes of administration, and minimal toxicity.

CNI103 significantly reduces TNFα and IL-6 secretion against LPS-induced ALI in mice.

CNI103 is a promising novel treatment for Acute respiratory distress syndrome (ARDS) and, possibly, COVID-19 ARDS and other inflammatory diseases.

References

Patrick G Dougherty, et al. *J Med Chem.* 2020 Nov 12;63(21):12853-12872.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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