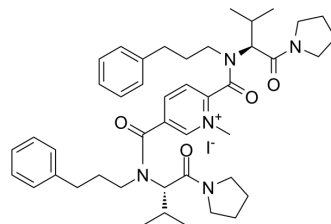


EM-163

Cat. No.:	HY-163035
CAS No.:	1206480-93-4
Molecular Formula:	C ₄₄ H ₆₀ IN ₅ O ₄
Molecular Weight:	849.88
Target:	TNF Receptor; IFNAR
Pathway:	Apoptosis; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	EM-163 is a summative BB-Loop analog. EM-163 can alleviate inflammation and prevent death from toxic shock by targeting the TIR domain of MyD88. EM-163 can be used in the study of SEB poisoning (SEB: Staphylococcal enterotoxin B) ^[1] .
In Vitro	EM-163 (50-100 µg/mL) can target the TIR domain, binding to the protein of the TIR domain and inhibit the interaction of the TIR-TIR domain ^[1] . EM-163 (10-500 µM; 30 min) inhibits the production of TNF-α, IFN-γ, IL-2 and IL-1b induced by SEB (200 ng/mL) in human mononuclear cells (MNS) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	EM-163 (0.21-0.86 mg/mouse; i.p.; Single dose) can effectively inhibit the release of proinflammatory cytokines and delay or avoid death from toxic shock caused by Staphylococcal enterotoxin B (SEB) in BALB/c mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	SEB-induced BALB/c mice model ^[1]
Dosage:	0.21 mg/mouse, 0.42 mg/mouse, 0.86 mg/mouse
Administration:	Intraperitoneal injection (i.p.); Single dose. Before SEB treatment (0.5 µg/mouse, 5 µg/mouse; i.p.; single dose) and LPS treatment.
Result:	Delayed mouse death at a dose of 0.21 mg/mouse, and protected mice from death at either dose of 0.42 mg/mouse or 0.86 mg/mouse. Delayed mouse death even at high doses of SEB (5 µg).

REFERENCES

[1]. Kissner TL, et al. Therapeutic inhibition of pro-inflammatory signaling and toxicity to staphylococcal enterotoxin B by a synthetic dimeric BB-loop mimetic of MyD88. PLoS One. 2012;7(7):e40773.

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

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