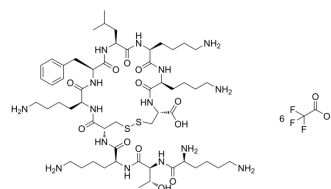


Endotoxin inhibitor TFA

Cat. No.:	HY-P3912A
Molecular Formula:	C ₆₇ H ₁₀₃ F ₁₈ N ₁₅ O ₂₄ S ₂
Molecular Weight:	1908.72
Sequence:	Lys-Thr-Lys-Cys-Lys-Phe-Leu-Lys-Lys-Cys (Disulfide bridge: Cys4-Cys10)
Sequence Shortening:	KTKCKFLKCC (Disulfide bridge: Cys4-Cys10)
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (52.39 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		0.5239 mL	2.6196 mL	5.2391 mL
	5 mM		0.1048 mL	0.5239 mL	1.0478 mL
	10 mM		0.0524 mL	0.2620 mL	0.5239 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Endotoxin inhibitor TFA is a synthetic peptide that binds lipid A with high affinity, thereby detoxifying LPS (HY-D1056) and preventing LPS-induced cytokine release in vivo. Endotoxin inhibitor TFA inhibits the febrile response to LPS with very low toxicity and lethality^[1].

In Vivo

Endotoxin inhibitor (i.p.; 0.5 mg/kg) TFA significantly attenuates heat exposure-induced increases in mRNA for IL-1β, COX-2, I κB-β, and LPS activity, as well as heat exposure-induced hypothermia and plasma ACTH and catecholamine responses in aged rats^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Toshihiko Katafuchi, et al. Endotoxin inhibitor blocks heat exposure-induced expression of brain cytokine mRNA in aged rats. Brain Res Mol Brain Res. 2003 Oct 21;118(1-2):24-32.

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

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