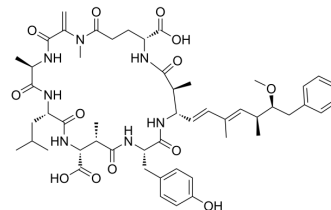


Microcystin-LY

Cat. No.:	HY-N11682
CAS No.:	123304-10-9
Molecular Formula:	C ₅₂ H ₇₁ N ₇ O ₁₃
Molecular Weight:	1002.16
Target:	Keap1-Nrf2
Pathway:	NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Microcystin-LY, a cyclic heptapeptide toxin from the cyanobacterium <i>Microcystis aeruginosa</i> ^[2] , acts as an activator of the Nrf2 pathway to induce oxidative stress response, and the induction effect is most obvious at 3μM. ^[1]
IC₅₀ & Target	Nrf2 ^[1]

REFERENCES

[1]. Lundqvist J, et al. Microcystins activate nuclear factor erythroid 2-related factor 2 (Nrf2) in human liver cells in vitro - Implications for an oxidative stress induction by microcystins. *Toxicol.* 2017 Feb;126:47-50.

[2]. Stoner RD, et al. The effects of single L-amino acid substitutions on the lethal potencies of the microcystins. *Toxicol.* 1989;27(7):825-8.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA