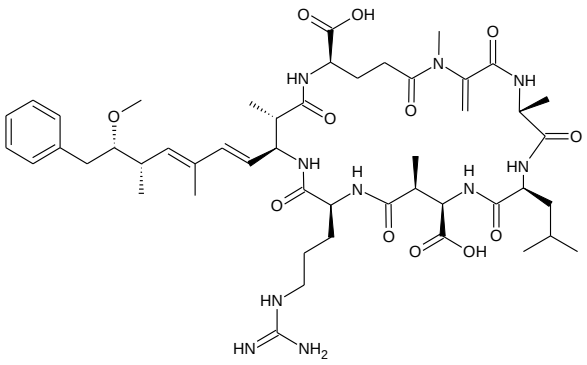
Microcystin LR
from *Microcystis aeruginosa*

Analytical Standard

Product Information

Cat. No.	Amount
MC-LR-a	1 mL (10 µg/mL)



Description

Cyclic heptapeptide toxin isolated from the freshwater cyanobacterium *Microcystis aeruginosa.*[1]

The identity of the compound has been confirmed by NMR and MS/MS.

The analytical standard is dissolved in 100% methanol and ready to use for calibration. It is distributed in amber glass vials containing around 10 µg in 1 ml MeOH. The concentration of each lot is determined spectrophotometrically, confirmed by HPLC, and stated on the Certificate of Analysis.

Product Specifications

Molecular Formula	$C_{49}H_{74}N_{10}O_{12}$
Molecular Weight	994.6 g/mol
Purity	>95 % (HPLC)
Source	*M. aeruginosa* strain
Form	solution of 10 µg/mL in methanol
Shipping	Ambient
Long Term Storage	- 20°C
Shelf life	24 months
Stability	The analytical standard should be used immediately after the vial is opened

For research use only!

Not available for sale to end-users without signing an end-use-certificate as required by German and international law.

[1] Botes et al., Structural studies on cyanoginosins-LR, -YR, YA, and –YM, peptide toxins from Microcystis aeruginosa, *JCS Perkin Trans. I* 1985, 2747-2748

MacKintosh et al., Cyanobacterial microcystin-LR is a potent and specific inhibitor of protein phosphatases 1 and 2A from both mammals and higher plants, *FEBS Lett.* 1990, 187-192

Nishiwaki-Matsuhima et al., Liver tumor promotion by the cyanobacterial cyclic peptide toxin microcystin-LR, *Cancer Res. Clin. Oncol.* 1992, 420-424

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