Microcystin-RR (Analytical Standard)

PP2A inhibitor

Microcystin-RR is the Arg-Arg analog of microcystin-LR (Prod. No. ALX-350-431). Hepatotoxic, although found to be up to 10-fold less toxic than microcystin-LR on i.p. injection in mice. Potent inhibitor of protein phosphatase 2A (PP2A). This product can be used as an analytical standard for water testing or for molecular studies when high purity is required.

May require a license for import, please contact us for more information.

Microcystins are a group of cyclic heptapeptide hepatotoxins produced by a number of cyanobacterial genera. The most notable of which, and namesake, is the widespread genus Microcystis. Structurally, all microcystins consist of the generalized structure cyclo(-D-Ala 1 -X 2 -D-MeAsp 3 -Y 4 -Adda 5 -D-Glu 6 -Mdha 7 -). X and Y are variable L-amino acids, D-MeAsp is D-erythro- β -methylaspartic acid and Mdha is N-methyldehydroalanine. Adda is the cyanobacteria unique C $_{20}$ β -amino acid 3-amino-9-methoxy-2,6,8-trimethyl-10-phenyl-deca-4,6-dienoic acid. Substitutions of the variable L-amino acids at positions 2 and 4 give rise to at least 21 known primary microcystin analogs and alterations in the other constituent amino acids result in more than 90 reported mycrocystins to date.

Citations: 11

View Online »

Ordering Information

Order Online »

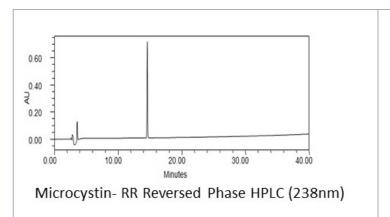
ALX-350-432-C010

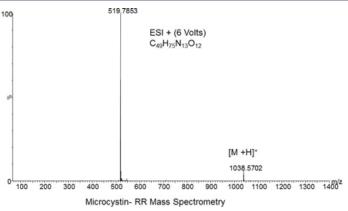
10µg

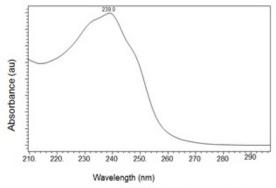
Manuals, SDS & CofA

View Online »

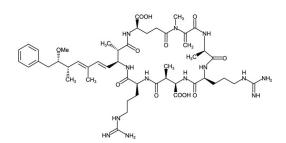
• Highest Purity On the Market!







Microcystin-RR (UV-VIS) at 239nm



Handling & Storage

Use/Stability As indicated on product label or CoA when stored as recommended. Preparation of

> stock solution: Thaw vial. Centrifuge vial for maximum product recovery. Use a syringe, draw the desired solvent (suggested solvent is 80% methanol). Make sure that no bubbles are drawn. Inject 1.0ml of desired solvent into the septum to obtain an concentration of 10µg/ml. Make sure that all the solvent has been injected prior to removing the syringe. Gently swirl the vial to get toxin into solution. If required, gently tap the bottom of the vial. Material is ready for analysis. Stock solutions are stable for up

to 6 months when stored at -20°C. Unstable at pH >7.7.

Handling Warm to room temperature before opening. Keep sterile. For maximum product

recovery after thawing, centrifuge the vial before opening the cap.

Short Term Storage -20°C

Long Term Storage -20°C

Shipping Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Appearance Clear to whitish film adhered to inside of vial.

CAS 111755-37-4

Couple Target Serine/threonine-protein phosphatase

Couple Type Inhibitor

Formula $C_{49}H_{75}N_{13}O_{12}$

Identity Identity determined by MS.

1038.2 MW

Purity ≥99% (HPLC)



Flash Chromatography followed by HPLC

Phone: 800 942 0430 (ELS) AG

ENZO LIFE SCIENCES

usa@enzolifesciences. Isolated from Microcystis aeruginosa.

& Luxembourg Phone: +32 3 466 0420 Phone: +33 472 440 655 fr@enzolifesciences.com

Phone: +49 7621 5500 526 de@enzolifesciences.com

0845 601 1488 Phone: +44 1392 825900

uk@enzolifesciences.com eu@enzolifesciences.com