
Product Data Sheet

Product Name: Microcystin-LA

Cat. No.: GC18859

Chemical Properties

Cas. No. 96180-79-9

Chemical Name cyclo[2,3-didehydro-N-methylalanyl-D-alanyl-L-leucyl-(3S)-3-methyl-D-β-aspartyl-L-alanyl-(2S,3S,4E,6E,8S,9S)-3-amino-9-methoxy-2,6,8-trimethyl-10-phenyl-4,6-decadienoyl-D-γ-glutamyl]

SMILES CC(/C=C/[C@@H]([C@H](C)C(N[C@@H](C(O)=O)CCC(N(C)C(C(N[C@@H]1C)=O)=C)=O)=O)NC([C@H](C)NC([C@@]([H])(C)[C@H](C(O)=O)NC([C@]([H])(CC(C)C)NC1=O)=O)=O)=O=C\[C@@H]([C@H](CC2=CC=CC=C2)OC)C

Formula C₄₆H₆₇N₇O₁₂

M.Wt 910.1

Solubility Ethanol: Soluble, Methanol: Soluble

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Microcystins are hepatotoxic cyclic heptapeptide toxins produced by cyanobacteria. They are responsible for periodic poisonings of humans and livestock following consumption of freshwater in areas where the blue-green algae are endemic. The toxicity of microcystins is initiated by the inhibition of the catalytic activity of protein phosphatase (PP) 1 and PP2A. Microcystin-LA differs from the major microcystin variant LR with the substitution of alanine in place of the arginine. It inhibits both PP1C and PP2A with an IC₅₀ value of 0.3 nM.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
