

## Microcystin-LA

Cat. No.:	HY-P0219
CAS No.:	96180-79-9
Molecular Formula:	C <sub>46</sub> H <sub>67</sub> N <sub>7</sub> O <sub>12</sub>
Molecular Weight:	910.06
Target:	Phosphatase
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture
	Powder    -80°C    2 years
	-20°C    1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### BIOLOGICAL ACTIVITY

Description	Microcystin LA, a natural toxin, exerts its cytotoxic effects by inhibiting the serine-threonine protein phosphatases PP1 and PP2A with IC <sub>50</sub> s of 0.3 and 0.3 nM, respectively <sup>[1]</sup> .
In Vitro	Microcystin LA inhibit PP1 and PP2A quite potently and specifically relative to other known phosphatases, such as PP2B (calcineurin), PP2C, and the tyrosine phosphatases <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Biosens Bioelectron. 2018 Oct 15;117:224-231.
- Analyst. 2019 Feb 25;144(5):1671-1678.

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**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](mailto:tech@MedChemExpress.com)

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