



LKT Laboratories, Inc.

Cyanopeptolin 1041

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Product Information

Product ID C9602

CAS No.

Chemical Name

Synonym CYP1041

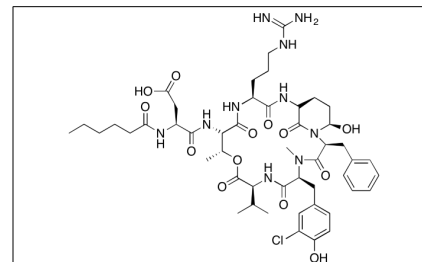
Formula $C_{49}H_{69}ClN_{10}O_{13}$

Formula Wt. 1041.7

Melting Point

Purity $\geq 95\%$

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C9602	100 μ g	\$668.90

Store Temp -20°C

Ship Temp Blue Ice

Description Cyanopeptolins are cytotoxic serine protease inhibitors that was initially produced by species of cyanobacteria *Microcystis*. These peptides inhibit chymotrypsin, trypsin, plasmin, and elastase. Cyanopeptolins may also exhibit some antibacterial activity against gram positive and gram negative bacteria.

References Silva-Stenico ME, Rigonato J, Leal MG, et al. Non-ribosomal halogenated protease inhibitors from cyanobacterial isolates as attractive drug targets. *Curr Med Chem*. 2012;19(30):5205-13. PMID: 22934766.

Gademann K, Portmann C, Blom JF, et al. Multiple toxin production in the cyanobacterium *microcystis*: isolation of the toxic protease inhibitor cyanopeptolin 1020. *J Nat Prod*. 2010 May 28;73(5):980-4. PMID: 20405925.

Choi H, Oh SK, Yih W, et al. Cyanopeptoline CB071: a cyclic depsipeptide isolated from the freshwater cyanobacterium *Aphanocapsa* sp. *Chem Pharm Bull (Tokyo)*. 2008 Aug;56(8):1191-3. PMID: 18670126.

von Elert E, Oberer L, Merkel P, et al. Cyanopeptolin 954, a chlorine-containing chymotrypsin inhibitor of *Microcystis aeruginosa* NIVA Cya 43. *J Nat Prod*. 2005 Sep;68(9):1324-7. PMID: 16180807.

Neumann U, Campos V, Cantarero S, et al. Co-occurrence of non-toxic (cyanopeptolin) and toxic (microcystin) peptides in a bloom of *Microcystis* sp. from a Chilean lake. *Syst Appl Microbiol*. 2000 Jun;23(2):191-7. PMID: 10930070.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.