



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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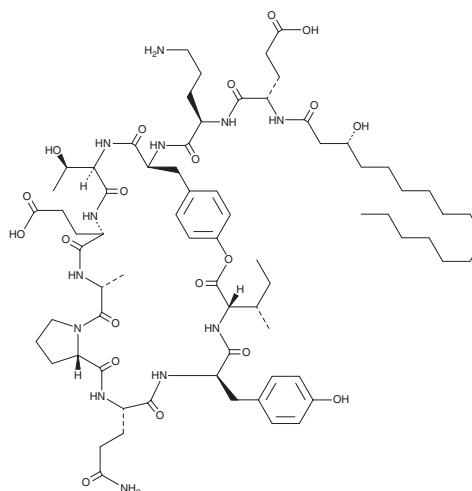
# PRODUCT INFORMATION



## Plipastatin A1

Item No. 38916

**CAS Registry No.:** 103651-09-8  
**Formal Name:** (10→3)-lactone, N-[(3R)-3-hydroxy-1-oxohexadecyl]-L-α-glutamyl-D-ornithyl-L-tyrosyl-D-allothreonyl-L-α-glutamyl-prolyl-L-glutamyl-D-tyrosyl-L-isoleucine  
**Synonyms:** Fengycin IX, SNA-60-367-3  
**MF:** C<sub>72</sub>H<sub>110</sub>N<sub>12</sub>O<sub>20</sub>  
**FW:** 1,463.7  
**Purity:** ≥90%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years  
**Item Origin:** Bacterium/*Bacillus* sp.



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Plipastatin A1 is supplied as a solid. A stock solution may be made by dissolving the plipastatin A1 in the solvent of choice. Plipastatin A1 is soluble in organic solvents such as methanol and DMSO. It is also soluble in water. We do not recommend storing the aqueous solution for more than one day.

### Description

Plipastatin A1 is a lipopeptide that has been found in *B. cereus* and has enzyme inhibitory and immunosuppressant activities.<sup>1</sup> It inhibits phospholipase A<sub>2</sub> (PLA<sub>2</sub>), PLC, and PLD (IC<sub>50</sub>s = 2.9, 1.3, and 1.4 μM, respectively). Plipastatin A1 (100 μg/ml) inhibits LPS-induced B cell blastogenesis and T cell blastogenesis induced by concanavalin A (Item No. 14951). *In vivo*, plipastatin A1 (0.1 mg/animal) inhibits delayed-type hypersensitivity in mice.

### Reference

1. Umezawa, H., Ayoagi, T., Nishikiori, T., *et al.* Plipastatins: New inhibitors of phospholipase A<sub>2</sub>, produced by *Bacillus cereus* BMG302-ff67. I. Taxonomy, production, isolation and preliminary characterization. *J. Antibiot. (Tokyo)* **39**(6), 737-744 (1986).

**WARNING**  
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**  
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

**WARRANTY AND LIMITATION OF REMEDY**  
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