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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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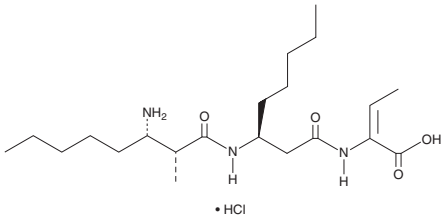
PRODUCT INFORMATION

Dioctatin A (hydrochloride)

Item No. 37795

Formal Name:	2-[[(3S)-3-[[(2R,3S)-3-amino-2-methyl-1-oxooctyl]amino]-1-oxooctyl]amino]-2-butenoic acid, monohydrochloride
Synonym:	DotA
MF:	$C_{21}H_{39}N_3O_4 \bullet HCl$
FW:	434.0
Purity:	≥90%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Bacterium/*Streptomyces* sp.



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

Laboratory Procedures

Dioctatin A (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the dioctatin A (hydrochloride) in the solvent of choice. Dioctatin A (hydrochloride) is soluble in organic solvents such as DMSO (when acidic) and methanol (when acidic), which should be purged with an inert gas. It is also soluble in water (when acidic). We do not recommend storing the aqueous solution for more than one day.

Description

Dioctatin A is a bacterial metabolite that has been found in *Streptomyces* and has mycotoxin inhibitory activity.[1] It inhibits the production of aflatoxin and norsolorinic acid, a biosynthetic precursor of aflatoxin, in *A. parasiticus* (IC_{50}s = 4 and 0.8 µM, respectively) but does not inhibit mycelial growth of *A. parasiticus* when used at a concentration of 50 µM. Dioctatin A (50 µM) decreases the mRNA expression of genes encoding aflatoxin biosynthetic enzymes and increases the production of the fungal metabolite kojic acid (Item No. 22712) in *A. parasiticus*. It inhibits the production of the mycotoxin sterigmatocystin (Item No. 11441) in *A. nidulans* (IC_{50} = 0.3 µM) and the conidiation of *A. parasiticus* and *A. nidulans* when used at a concentration of 50 µM.

Reference

1. Yoshinari, T., Akiyama, T., Nakamura, K., *et al*. Dioctatin A is a strong inhibitor of aflatoxin production by *Aspergillus parasiticus*. *Microbiology (Reading)* **153(Pt 8)**, 2774-2780 (2007).

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