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Produktinformation

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- 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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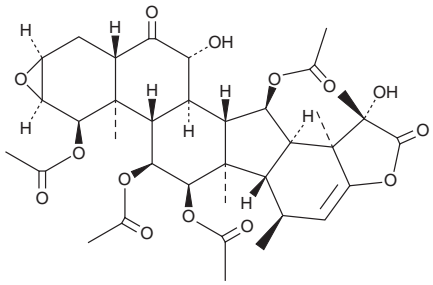
PRODUCT INFORMATION

Taccalonolide A

Item No. 40798

CAS Registry No.:	108885-68-3
Formal Name:	(1α,2α,3α,5α,7β,11α,12α,15α,16β,24β,25S)-1,11,12,15-tetrakis(acetyloxy)-2,3-epoxy-7,23,25-trihydroxy-6-oxo-γ-lactone, 16,24-cycloergost-22-en-26-oic acid
MF:	$C_{36}H_{46}O_{14}$
FW:	702.7
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Marsdenia officinalis*



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

Laboratory Procedures

Taccalonolide A is supplied as a solid. A stock solution may be made by dissolving the taccalonolide A in the solvent of choice, which should be purged with an inert gas. Taccalonolide A is slightly soluble (0.1-1 mg/ml) in acetonitrile and sparingly soluble (1-10 mg/ml) in DMSO.

Taccalonolide A is slightly soluble (0.1-1 mg/ml) in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

Taccalonolide A is a taccalonolide that has been found in *T. chantrieri* and has anticancer activity.[1] It induces microtubule bundling, formation of abnormal mitotic spindles, and cell cycle arrest at the G_2/M phase in HeLa cervical cancer cells when used at a concentration of 3.5 µM. Taccalonolide A decreases the proliferation of HeLa cells (IC_{50} = 594 nM). *In vivo*, taccalonolide A increases the number of tumor free mice but reduces body weight in a 16/C murine breast cancer model.

Reference

1. Peng, J., Risinger, A.L., Fest, G.A., *et al.* Identification and biological activities of new taccalonolide microtubule stabilizers. *J. Med. Chem.* **54(17)**, 6117-6124 (2011).

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