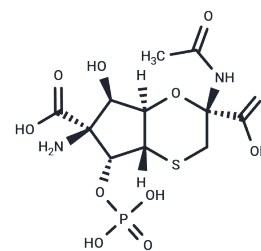


Tagetitoxin

Chemical Properties

CAS No. :	87913-21-1
Formula:	C ₁₁ H ₁₇ N ₂ O ₁₁ P ₅
Molecular Weight:	416.3
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tagetitoxin is a chlorosis-inducing phytoxin produced by <i>Pseudomonas syringae</i> pv. <i>tagetis</i> that suppresses RNA synthesis directed by chloroplast RNA polymerase.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4021 mL	12.0106 mL	24.0211 mL
5 mM	0.4804 mL	2.4021 mL	4.8042 mL
10 mM	0.2402 mL	1.2011 mL	2.4021 mL
50 mM	0.048 mL	0.2402 mL	0.4804 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Aliev AE, Karu K, Mitchell RE, Porter MJ. The structure of tagetitoxin. *Org Biomol Chem*. 2016 Jan 7;14(1):238-45. doi: 10.1039/c5ob02076j. Epub 2015 Oct 30. PubMed PMID: 26517805.
- Yamada H, Adachi M, Nishikawa T. Stereocontrolled synthesis of the oxathiabicyclo[3.3.1]nonane core structure of tagetitoxin. *Chem Commun (Camb)*. 2013 Dec 11;49(95):11221-3. doi: 10.1039/c3cc46949b. Epub 2013 Oct 23. PubMed PMID: 24150697.
- Yuzenkova Y, Roghanian M, Bochkareva A, Zenkin N. Tagetitoxin inhibits transcription by stabilizing pre-translocated state of the elongation complex. *Nucleic Acids Res*. 2013 Nov;41(20):9257-65. doi: 10.1093/nar/gkt708. Epub 2013 Aug 9. PubMed PMID: 23935117; PubMed Central PMCID: PMC3814378.
- Nedialkov YA, Nudler E, Burton ZF. RNA polymerase stalls in a post-translocated register and can hyper-translocate. *Transcription*. 2012 Sep-Oct;3(5):260-9. doi: 10.4161/trns.22307. Epub 2012 Sep 1. PubMed PMID: 23132506; PubMed Central PMCID: PMC3632624.

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